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AFATL-TR-76-23

cy. 1

A COMPILATION OF STATIC STABILITY AND FIN LOADS DATA FOR SLENDER BODY MISSILE MODELS WITH AND WITHOUT TAIL FINS AND WINGS

VOLUME II

(APPENDIXES A THROUGH E)
(TESTS NUMBER 1 THROUGH 5)

PROPULSION WIND TUNNEL FACILITY
ARNOLD ENGINEERING DEVELOPMENT CENTER
AIR FORCE SYSTEMS COMMAND
ARNOLD AF STATION, TENNESSEE 37389

March 1976

Final Report for Period March 1968 – March 1973

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AIR FORCE ARMAMENT LABORATORY (AFATL/DLMA)
EGLIN AIR FORCE BASE, FLORIDA 32543

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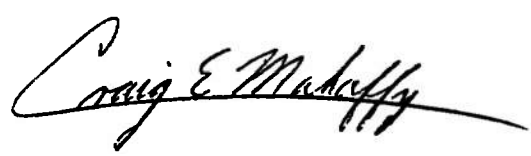
APPROVAL STATEMENT

This technical report has been reviewed and is approved for publication.

FOR THE COMMANDER

JOHN R. TAYLOR
Analysis & Evaluation
Division
Directorate of Test



CRAIG E. MAHAFFY
Colonel, USAF
Director of Test

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17 DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report)

18 SUPPLEMENTARY NOTES

Available in DDC; complete report consists of five volumes.

19 KEY WORDS (Continue on reverse side if necessary and identify by block number)

Martin Generalized Research Model	slender bodies
tables (data)	static stability
guided missiles	fins
models	aerodynamic loading
wing body configurations	control surfaces (Cont'd)

20 ABSTRACT (Continue on reverse side if necessary and identify by block number)

This document contains a compilation of aerodynamic data for the Martin Generalized Research Model, which is a composite of several body, wing, and tail fin configurations typical of missile applications. The model variations included five body configurations, three wing configurations at various body locations, and 15 tail fin configurations. Static stability and tail fin loads data are presented in tabulated and plotted form for a Mach number range

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4. TITLE (Continued)

THROUGH E) (TESTS NUMBER 1 THROUGH 5)

19. KEY WORDS (Continued)

deflection
transonic flow
supersonic flow
wind tunnel tests

20. ABSTRACT (Continued)

from 0.20 to 4.63 over an angle-of-attack range from -6 to 60 deg and a sideslip angle range from -20 to 20 deg for the body-alone configurations, body-wing configurations, and the body-wing-tail fin configurations. In addition, the tail fin configurations were tested using the reflection plane technique, and the resulting fin loads data are presented for a Mach number range of 0.80 to 2.16 over an angle-of-attack range from 0 to 210 deg. Volume II contains the tabulated data obtained during Tests Number 1 and 2 at AEDC and Tests Number 3, 4, and 5 at NASA Langley Research Center.

AFSC
Arnold AFS Tenn

PREFACE

The data presented herein were compiled by the Arnold Engineering Development Center (AEDC), Air Force Systems Command (AFSC), under the sponsorship of the Air Force Armament Laboratory (AFATL), Eglin Air Force Base, Florida. Seven different tests were conducted by three organizations: ARO, Inc. (a subsidiary of Sverdrup & Parcel and Associates, Inc.), contract operator of the AEDC, AFSC, Arnold Air Force Station, Tennessee; Naval Ship Research and Development Center (NSRDC), Bethesda, Maryland; and Langley Research Center (LRC), National Aeronautics and Space Administration (NASA), Langley Air Force Base, Virginia. The data were compiled under ARO Project No. P34A-37A. The author of this report was G. R. Gomillion, ARO, Inc. The manuscript (ARO Control No. ARO-PWT-TR-75-88) was submitted for publication on June 20, 1975.

This volume contains the tabulated data that were obtained during (1) Tests Number 1 and 2 that were conducted in the Aerodynamic Wind Tunnel (4T) at AEDC during December 1970 and May 1972, respectively, and (2) Tests Number 3, 4, and 5 that were conducted in the Unitary Plan Wind Tunnel (UPWT) at NASA Langley Research Center during March 1968, April 1970, and July 1971, respectively. As an aid in the use of these data, tables that list the part numbers for the tabulated data from Tests Number 1 through 5 and the general list of nomenclature are repeated from Volume I at the end of this volume.

APPENDIX A
TEST 1

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RE10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	4	0.60	2.3	0.0	W4W0F12	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-0.00	-0.00	0.0248	-0.0716	-0.0292	0.0919	0.0003	0.2532	0.0970	0.1562	-2.8852
2	1.99	-0.00	0.3149	-0.7178	-0.0258	0.0862	-0.0015	0.2604	0.0987	0.1617	-2.2637
3	3.99	-0.00	0.6359	-1.4537	-0.0232	0.0839	-0.0015	0.2655	0.1057	0.1597	-2.2868
4	5.97	-0.00	0.9858	-2.2760	-0.0254	0.0861	-0.0032	0.2813	0.1124	0.1689	-2.3069
5	7.98	-0.00	1.3592	-3.1647	-0.0209	0.0693	-0.0013	0.2981	0.1154	0.1827	-2.3448
6	9.98	-0.00	1.7268	-4.0443	-0.0138	0.0600	-0.0085	0.3192	0.1283	0.1910	-2.3421
7	11.96	-0.00	2.1170	-4.8982	-0.0141	0.0598	-0.0066	0.3286	0.1461	0.1825	-2.3128
8	13.96	-0.00	2.5008	-5.6443	-0.0095	0.0768	-0.0065	0.3348	0.1578	0.1770	-2.2578
9	15.98	-0.00	2.8839	-6.2586	-0.0141	0.0954	-0.0049	0.3365	0.1651	0.1714	-2.1782
10	17.04	-0.01	3.0278	-6.2984	-0.0152	0.1006	-0.0052	0.3325	0.1685	0.1640	-2.0797
11	18.00	-0.00	3.2067	-6.5809	-0.0082	0.0736	-0.0129	0.3430	0.1753	0.1678	-2.0518
12	19.03	-0.00	3.4277	-6.9567	-0.0185	0.0805	-0.0131	0.3501	0.1849	0.1652	-2.0295
13	20.02	-0.00	3.6427	-7.2512	-0.0012	0.0431	-0.0191	0.3530	0.1906	0.1623	-1.9906
14	21.05	-0.00	3.8349	-7.5013	0.0132	0.0078	-0.0250	0.3527	0.2015	0.1507	-1.9561
15	22.09	-0.01	4.0753	-7.8622	0.0149	0.0363	-0.0140	0.3575	0.2092	0.1484	-1.9292
16	23.08	-0.01	4.3025	-8.1643	0.0308	0.0080	-0.0091	0.3554	0.2262	0.1292	-1.8976
17	24.11	-0.01	4.4729	-8.2638	0.0369	0.0104	0.0123	0.3535	0.2256	0.1280	-1.8675
18	25.16	-0.00	4.6735	-8.3882	0.0504	-0.0253	0.0404	0.3522	0.2438	0.1084	-1.7948
19	26.16	-0.00	4.8054	-8.3984	0.0466	-0.0440	0.0899	0.3536	0.2587	0.0949	-1.7477
20	27.18	0.01	5.0284	-8.5453	0.1802	-0.2841	0.1401	0.3590	0.2780	0.0811	-1.6994
21	28.17	0.01	5.2720	-8.8234	0.1941	-0.3420	0.1451	0.3586	0.2960	0.0626	-1.6736
22	29.18	0.01	5.5319	-9.0646	0.3322	-0.5945	0.1477	0.3497	0.3102	0.0396	-1.6386
23	29.18	0.01	5.4867	-9.0467	0.2734	-0.5310	0.1570	0.3447	0.3318	0.0129	-1.6488
24	30.21	0.02	5.7514	-9.2423	0.3173	-0.6633	0.1623	0.3295	0.3315	-0.0020	-1.6078

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RA10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	5	0.65	2.3	0.0	#4 OF 12	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-0.01	-0.00	0.0070	-0.0911	-0.0345	0.0954	0.0091	0.2299	0.1080	0.1219	-12.9266
2	1.99	-0.00	0.3060	-0.7652	-0.0312	0.0903	0.0057	0.2390	0.1034	0.1355	-2.4844
3	3.97	-0.00	0.6329	-1.5259	-0.0309	0.0931	0.0076	0.2473	0.1087	0.1385	-2.4109
4	5.96	-0.00	0.9748	-2.3697	-0.0278	0.0893	0.0060	0.2627	0.1184	0.1443	-2.4318
5	7.95	-0.00	1.3593	-3.3229	-0.0258	0.0817	0.0094	0.2896	0.1182	0.1714	-2.4446
6	9.96	-0.00	1.7485	-4.2139	-0.0220	0.0594	0.0077	0.3075	0.1308	0.1767	-2.4188
7	11.95	-0.00	2.1486	-5.0952	-0.0074	0.0528	0.0008	0.3315	0.1434	0.1881	-2.3714
8	13.97	-0.00	2.5586	-5.9077	-0.0174	0.0742	0.0062	0.3380	0.1527	0.1853	-2.3098
9	15.98	-0.00	2.9468	-6.5293	-0.0301	0.1110	0.0114	0.3386	0.1659	0.1727	-2.2172
10	17.04	-0.00	3.0677	-6.4999	-0.0421	0.1442	0.0165	0.3276	0.1673	0.1603	-2.1180
11	18.03	-0.01	3.2604	-6.7786	-0.0026	0.0691	-0.0071	0.3411	0.1779	0.1632	-2.0791
12	19.00	-0.00	3.4753	-7.1226	-0.0258	0.0952	0.0033	0.3528	0.1885	0.1643	-2.0495
13	20.03	-0.00	3.6558	-7.3357	-0.0023	0.0325	-0.0044	0.3499	0.1977	0.1522	-2.0066
14	21.05	-0.00	3.8771	-7.6107	0.0099	0.0139	-0.0083	0.3618	0.2027	0.1591	-1.9630
15	22.09	-0.00	4.1010	-7.8994	-0.0072	0.0607	-0.0030	0.3579	0.2236	0.1343	-1.9262
16	23.11	-0.00	4.3053	-8.0969	0.0095	0.0335	-0.0018	0.3590	0.2362	0.1227	-1.8897
17	24.15	-0.00	4.4893	-8.1917	0.0194	0.0372	0.0329	0.3607	0.2471	0.1136	-1.8247
18	25.12	-0.00	4.7031	-8.3266	0.0316	0.0163	0.0570	0.3618	0.2646	0.0972	-1.7785
19	26.16	0.00	4.8916	-8.4221	0.0574	-0.0304	0.0786	0.3599	0.2749	0.0850	-1.7218
20	27.20	0.00	5.0969	-8.5472	0.0668	-0.0878	0.1164	0.3587	0.2926	0.0661	-1.6769
21	28.21	0.00	5.3443	-8.7665	0.1195	-0.1546	0.0994	0.3514	0.3011	0.0503	-1.6404
22	29.26	0.01	5.5906	-8.9312	0.1218	-0.1956	0.1004	0.3396	0.3199	0.0197	-1.5975
23	30.30	0.01	5.8657	-8.9770	0.1491	-0.2507	0.1075	0.3211	0.3269	-0.0059	-1.5384

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	B	0.92	2.3	0.0	B4W0F12	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-0.00	-0.00	0.0437	-0.1083	-0.0241	0.0840	-0.0030	0.2514	0.0890	0.1624	-2.4762
2	1.99	-0.00	0.3371	-0.7600	-0.0207	0.0803	-0.0063	0.2566	0.0991	0.1574	-2.2541
3	3.98	-0.00	0.6977	-1.6764	-0.0219	0.0906	-0.0076	0.2614	0.1075	0.1539	-2.4027
4	5.98	-0.00	1.0766	-2.6632	-0.0196	0.0816	-0.0091	0.2742	0.1195	0.1547	-2.4737
5	7.97	-0.00	1.4927	-3.7583	-0.0134	0.0646	-0.0089	0.3018	0.1262	0.1756	-2.5178
6	7.97	-0.00	1.4910	-3.7837	-0.0119	0.0737	-0.0120	0.3035	0.1244	0.1790	-2.5377
7	9.98	-0.01	1.9002	-4.7644	-0.0092	0.0742	-0.0184	0.3349	0.1386	0.1962	-2.5073
8	11.93	-0.01	2.3060	-5.8714	-0.0043	0.0743	-0.0233	0.3470	0.1581	0.1888	-2.4594
9	13.96	-0.01	2.7311	-6.9184	-0.0006	0.0828	-0.0233	0.3469	0.1635	0.1834	-2.3867
10	15.95	-0.01	3.1191	-7.9062	-0.0037	0.1308	-0.0096	0.3494	0.1682	0.1811	-2.3183
11	17.00	-0.01	3.3111	-7.4029	-0.0312	0.2579	0.0143	0.3548	0.1722	0.1826	-2.2358
12	17.99	-0.01	3.4650	-7.5056	-0.0160	0.2090	-0.0113	0.3581	0.1916	0.1665	-2.1661
13	19.01	-0.01	3.6516	-7.6643	0.0127	0.0835	-0.0244	0.3628	0.2167	0.1461	-2.0989
14	20.05	-0.01	3.8427	-7.8666	0.0223	0.0192	-0.0337	0.3723	0.2313	0.1410	-2.0472
15	21.05	-0.01	4.0604	-8.1461	0.0180	0.0421	-0.0256	0.3858	0.2430	0.1428	-2.0062
16	22.07	-0.01	4.2557	-8.2823	0.0095	0.0566	-0.0143	0.3801	0.2612	0.1189	-1.9462
17	23.09	-0.01	4.4564	-8.3778	0.0057	0.0837	-0.0096	0.3860	0.2761	0.1099	-1.8799
18	24.13	-0.01	4.4418	-8.4436	0.0008	0.0986	-0.0017	0.3893	0.2903	0.0990	-1.8190
19	25.17	-0.01	4.8540	-8.6490	-0.0064	0.1236	-0.0055	0.3846	0.3056	0.0790	-1.7476
20	26.20	-0.01	5.0648	-8.5723	-0.0262	0.1767	-0.0040	0.3792	0.3217	0.0535	-1.6925
21	27.25	-0.01	5.3600	-8.8677	0.0561	0.0391	0.0421	0.3614	0.3318	0.0296	-1.5985
22	28.30	-0.01	5.6316	-9.0536	0.0461	0.0171	0.0359	0.3429	0.3353	0.0076	-1.5011
23	29.33	-0.01	5.9382	-9.4045	0.1111	-0.0569	0.0587	0.3312	0.3499	-0.0187	-1.4153
24	30.38	-0.01	6.1796	-9.4184	0.0816	0.0034	0.0448	0.3114	0.3551	-0.0438	-1.3623

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	9	0.90	2.3	0.0	B4W0F12	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-0.00	-0.00	0.0520	-0.1351	-0.0324	0.1125	-0.0190	0.2656	0.1054	0.1603	-2.5959
2	2.00	-0.00	0.3624	-0.8229	-0.0264	0.1049	-0.0206	0.2711	0.1045	0.1667	-2.2704
3	3.99	-0.01	0.7006	-1.6448	-0.0235	0.1056	-0.0204	0.2686	0.1104	0.1581	-2.3478
4	5.98	-0.01	1.0724	-2.6277	-0.0231	0.1065	-0.0200	0.2848	0.1100	0.1748	-2.4503
5	7.96	-0.01	1.4867	-3.7095	-0.0181	0.1013	-0.0246	0.3085	0.1363	0.1722	-2.4951
6	9.95	-0.01	1.9471	-4.7412	-0.0141	0.1016	-0.0276	0.3355	0.1518	0.1837	-2.4992
7	11.95	-0.01	2.3180	-5.7034	-0.0135	0.1056	-0.0339	0.3541	0.1640	0.1901	-2.4605
8	13.95	-0.01	2.7495	-6.5805	-0.0062	0.1064	-0.0339	0.3549	0.1769	0.1781	-2.3934
9	15.97	-0.01	3.1593	-7.2954	-0.0070	0.1429	-0.0240	0.3608	0.1883	0.1725	-2.3093
10	16.98	-0.01	3.3838	-7.6671	-0.0023	0.1386	-0.0209	0.3696	0.2008	0.1688	-2.2658
11	17.99	-0.01	3.5670	-7.8774	-0.0081	0.1635	0.0050	0.3737	0.2156	0.1581	-2.2084
12	19.01	-0.01	3.7279	-7.9492	-0.0078	0.1491	-0.0248	0.3743	0.2407	0.1335	-2.1323
13	20.04	-0.01	3.9048	-8.0263	0.0071	0.0747	-0.0438	0.3899	0.2455	0.1444	-2.0555
14	21.06	-0.01	4.1152	-8.2456	0.0091	0.0634	-0.0411	0.3966	0.2795	0.1171	-2.0037
15	22.08	-0.01	4.3208	-8.3926	0.0157	0.0552	-0.0333	0.4050	0.2792	0.1259	-1.9423
16	23.12	-0.01	4.5421	-8.4452	0.0032	0.0800	-0.0290	0.4005	0.2933	0.1071	-1.8681
17	24.17	-0.01	4.7627	-8.5331	-0.0028	0.1130	-0.0100	0.3983	0.3042	0.0941	-1.7854
18	25.19	-0.01	4.9900	-8.4651	-0.0176	0.1223	-0.0255	0.3921	0.3172	0.0749	-1.6964
19	26.23	-0.01	5.2415	-8.4361	0.0022	0.1012	-0.0135	0.3807	0.3317	0.0490	-1.6095
20	27.29	-0.01	5.5334	-8.4011	0.0527	0.0204	0.0143	0.3659	0.3407	0.0252	-1.5183
21	28.36	-0.01	5.8931	-8.3086	0.1091	-0.0965	0.0309	0.3557	0.3393	0.0165	-1.4098
22	29.42	-0.00	6.1848	-8.2792	0.1752	-0.2415	0.0558	0.3368	0.3539	-0.0170	-1.3386
23	30.47	-0.00	6.4896	-8.2783	0.1986	-0.2765	0.0463	0.3181	0.3629	-0.0448	-1.2756
24	0.00	-0.01	0.0716	-0.1511	-0.0306	0.1284	-0.0396	0.3017	0.1122	0.1895	-2.1109

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)

PAGE 1 OF 1

SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	10	0.96	2.3	0.0	B4eOF12	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	0.00	-0.01	0.0714	-0.1469	-0.0316	0.1298	-0.0411	0.3011	0.1137	0.1875	-2.0566
2	2.00	-0.01	0.3877	-0.8966	-0.0269	0.1203	-0.0426	0.2984	0.1200	0.1784	-2.3128
3	3.99	-0.01	0.7375	-1.7660	-0.0202	0.1125	-0.0439	0.3044	0.1163	0.1881	-2.3947
4	5.98	-0.01	1.0812	-2.6647	-0.0205	0.1098	-0.0439	0.3125	0.1278	0.1847	-2.4461
5	7.97	-0.01	1.4788	-3.6280	-0.0166	0.1062	-0.0468	0.3323	0.1425	0.1897	-2.4534
6	9.95	-0.01	1.8855	-4.6209	-0.0138	0.1102	-0.0529	0.3589	0.1535	0.2054	-2.4508
7	11.95	-0.01	2.3178	-5.6266	-0.0096	0.1067	-0.0560	0.3850	0.1621	0.2229	-2.4275
8	13.96	-0.01	2.7470	-6.5037	-0.0045	0.1084	-0.0559	0.3853	0.1848	0.2005	-2.3676
9	15.97	-0.01	3.1765	-7.2690	0.0047	0.1051	-0.0546	0.3998	0.2054	0.1944	-2.2947
10	16.99	-0.01	3.3881	-7.6015	0.0039	0.1099	-0.0528	0.4118	0.2132	0.1986	-2.2436
11	18.00	-0.01	3.6095	-7.9527	0.0096	0.0967	-0.0516	0.4198	0.2361	0.1837	-2.2033
12	18.99	-0.01	3.8052	-8.1854	0.0005	0.1230	-0.0328	0.4117	0.2590	0.1528	-2.1511
13	20.04	-0.01	3.9769	-8.2708	0.0206	0.0690	-0.0610	0.4079	0.2665	0.1414	-2.0797
14	21.09	-0.01	4.2127	-8.3994	0.0151	0.0617	-0.0615	0.4288	0.2637	0.1651	-1.9938
15	22.10	-0.01	4.3955	-8.4201	0.0025	0.0802	-0.0603	0.4245	0.2838	0.1407	-1.9156
16	23.13	-0.01	4.6475	-8.5361	-0.0130	0.1075	-0.0626	0.4157	0.2927	0.1230	-1.8367
17	24.17	-0.01	4.8985	-8.5627	0.0266	0.0320	-0.0429	0.4100	0.3028	0.1073	-1.7521
18	25.23	-0.01	5.1777	-8.5368	0.0519	-0.0297	-0.0282	0.4156	0.3086	0.1070	-1.6488
19	26.27	-0.01	5.4273	-8.4227	0.0855	-0.0990	0.0038	0.3980	0.3238	0.0741	-1.5519
20	27.32	-0.00	5.7172	-8.3430	0.1377	-0.1797	0.0454	0.3833	0.3403	0.0430	-1.4593
21	28.42	-0.00	6.0637	-8.2785	0.1134	-0.1422	0.0245	0.3627	0.3461	0.0166	-1.3652
22	29.46	-0.01	6.4513	-8.2585	0.1228	-0.1265	0.0226	0.3566	0.3499	0.0067	-1.2801
23	30.50	-0.02	6.7194	-8.2319	0.0843	-0.0144	-0.0142	0.3369	0.3577	-0.0208	-1.2251

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
PART1, MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	14	0.60	2.3	0.0	84WOF12	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAW	CAF	XCP
1	-0.00	-0.00	0.0469	-0.1117	-0.0222	0.0836	0.0017	0.3384	0.1433	0.1951	-2.3826
2	1.99	-0.00	0.3697	-0.8845	-0.0249	0.0863	0.0050	0.3338	0.1339	0.1999	-2.3925
3	3.99	-0.00	0.7261	-1.7633	-0.0215	0.0837	0.0052	0.3425	0.1352	0.2073	-2.4285
4	5.99	-0.00	1.0853	-2.6622	-0.0205	0.0790	0.0054	0.3484	0.1529	0.1955	-2.4538
5	7.98	-0.00	1.4640	-3.5932	-0.0202	0.0692	0.0055	0.3826	0.1599	0.2227	-2.4544
6	9.96	-0.00	1.8531	-4.5149	-0.0144	0.0673	0.0009	0.3976	0.1878	0.2098	-2.4364
7	11.96	-0.00	2.2784	-5.4294	-0.0169	0.0757	-0.0022	0.4271	0.2044	0.2227	-2.3839
8	13.96	-0.00	2.7080	-6.3066	-0.0129	0.0771	0.0026	0.4360	0.2176	0.2204	-2.3289
9	15.98	-0.00	3.1271	-7.0787	-0.0071	0.0729	0.0024	0.4466	0.2420	0.2046	-2.2637
10	16.99	-0.01	3.3500	-7.3674	-0.0024	0.0664	-0.0026	0.4687	0.2511	0.2175	-2.1992
11	18.01	-0.01	3.5759	-7.6934	0.0023	0.0604	-0.0029	0.4715	0.2811	0.1904	-2.1516
12	19.02	-0.01	3.8193	-8.0483	0.0048	0.0560	-0.0016	0.4614	0.2987	0.1627	-2.1073
13	20.05	-0.00	4.0549	-8.2569	-0.0080	0.0741	-0.0004	0.4723	0.2881	0.1842	-2.0363
14	21.08	-0.00	4.3011	-8.5670	-0.0117	0.0874	0.0010	0.4812	0.2900	0.1712	-1.9918
15	22.12	-0.00	4.5505	-8.8134	0.0257	0.0072	0.0060	0.4568	0.2921	0.1646	-1.8928
16	23.14	-0.01	4.7444	-8.5240	0.0328	0.0231	0.0167	0.4468	0.3054	0.1413	-1.7966
17	24.20	-0.00	5.0079	-8.5084	0.0560	-0.0385	0.0153	0.4363	0.3169	0.1194	-1.6998
18	25.24	-0.00	5.3296	-8.5842	0.0390	0.0021	0.0254	0.4300	0.3387	0.0913	-1.6060
20	27.36	-0.00	5.9702	-8.4652	0.1144	-0.1525	0.0522	0.3934	0.3426	0.0507	-1.4179
21	28.44	-0.00	6.2621	-8.3423	0.1391	-0.2150	0.0499	0.3778	0.3500	0.0278	-1.3322
22	29.49	0.00	6.5388	-8.2595	0.1681	-0.2690	0.0702	0.3695	0.3529	0.0165	-1.2831
23	30.55	-0.00	6.8655	-8.2425	0.1605	-0.2263	0.0722	0.3531	0.3595	-0.0064	-1.2006
24	26.30	-0.00	5.6618	-8.5754	0.0908	-0.1122	0.0555	0.4200	0.3526	0.0674	-1.5146
25	27.09	-0.00	4.5434	-8.6001	0.0213	0.0114	0.0155	0.4670	0.3364	0.1306	-1.8929
26	18.01	-0.00	3.5869	-7.7401	-0.0022	0.0711	0.0067	0.4621	0.3144	0.1478	-2.1579
27	13.96	-0.00	2.7184	-6.3561	-0.0162	0.0876	0.0139	0.4190	0.2734	0.1456	-2.3382
28	9.97	-0.00	1.8723	-4.5844	-0.0185	0.0749	0.0122	0.3809	0.2339	0.1470	-2.4486
29	5.97	-0.00	1.0905	-2.6946	-0.0224	0.0851	0.0118	0.3440	0.1853	0.1587	-2.4718
30	1.99	-0.00	0.3815	-0.9160	-0.0256	0.0985	0.0130	0.3381	0.1506	0.1875	-2.4007
31	-0.00	-0.00	0.0553	-0.1354	-0.0295	0.0956	0.0143	0.3388	0.1366	0.2021	-2.4486

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RE10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	15	1.60	2.3	0.0	B4=0F12	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-0.00	-0.00	0.0339	-0.1136	-0.0330	0.1155	0.0138	0.4926	0.1994	0.2932	-3.3502
2	1.98	-0.00	0.3424	-0.8355	-0.0325	0.1118	0.0124	0.4984	0.2073	0.2916	-2.4400
3	3.99	-0.00	0.7371	-1.8533	-0.0297	0.1097	0.0127	0.4966	0.2258	0.2708	-2.5142
4	5.97	-0.00	1.1065	-2.7582	-0.0262	0.1069	0.0129	0.5067	0.2367	0.2700	-2.4927
5	7.97	-0.00	1.4645	-3.5176	-0.0262	0.0822	0.0156	0.5497	0.2226	0.3271	-2.4019
6	9.97	-0.00	1.8518	-4.4128	-0.0229	0.0858	0.0144	0.5609	0.2628	0.2981	-2.3830
7	11.97	-0.00	2.2658	-5.2319	-0.0212	0.0923	0.0113	0.5740	0.2795	0.2945	-2.3091
8	14.01	-0.00	2.6718	-6.2403	-0.0229	0.0989	0.0126	0.5817	0.2872	0.2945	-2.2233
9	16.02	-0.00	3.0906	-6.5666	-0.0183	0.0914	0.0122	0.5915	0.3002	0.2913	-2.1247
10	17.04	-0.00	3.3166	-6.8763	-0.0159	0.0943	0.0119	0.5996	0.3068	0.2928	-2.0732
11	18.05	-0.00	3.5479	-7.1910	-0.0156	0.0970	0.0086	0.6068	0.3139	0.2869	-2.0161
12	19.07	-0.00	3.7769	-7.3704	-0.0133	0.0914	0.0096	0.6053	0.3193	0.2860	-1.9515
13	20.10	-0.00	4.0292	-7.5989	-0.0140	0.0905	0.0091	0.5989	0.3266	0.2723	-1.8860
14	21.13	-0.00	4.3025	-7.8019	-0.0030	0.0679	0.0069	0.5901	0.3361	0.2541	-1.8133
15	22.17	-0.00	4.5957	-7.9933	0.0101	0.0369	0.0090	0.5777	0.3354	0.2423	-1.7306
16	23.21	-0.00	4.8919	-8.0787	0.0402	-0.0329	0.0124	0.5622	0.3402	0.2220	-1.6514
17	24.26	-0.00	5.2011	-8.1618	0.0838	-0.0986	0.0186	0.5488	0.3419	0.2069	-1.5698
18	25.31	0.00	5.5059	-8.1775	0.0768	-0.1353	0.0234	0.5331	0.3392	0.1939	-1.4852
19	26.38	0.00	5.8339	-8.2223	0.1073	-0.2078	0.0321	0.5162	0.3450	0.1712	-1.4094
20	27.42	0.01	6.1576	-8.2563	0.1419	-0.3117	0.0419	0.4999	0.3501	0.1497	-1.3609
21	28.47	0.01	6.4703	-8.2486	0.1603	-0.3643	0.0398	0.4881	0.3444	0.1438	-1.2748
22	29.54	0.00	6.7764	-8.2801	0.1636	-0.3353	0.0311	0.4722	0.3505	0.1217	-1.2219
23	30.59	0.01	7.0528	-8.2477	0.2869	-0.6185	0.0581	0.4529	0.3546	0.0984	-1.1694
24	26.37	0.00	5.8086	-8.1964	0.1111	-0.2263	0.0350	0.5231	0.3624	0.1607	-1.4111
25	24.37	0.00	5.8107	-8.1924	0.1101	-0.2063	0.0351	0.5201	0.3543	0.1658	-1.4099
26	22.17	-0.00	4.5702	-7.8606	0.0079	0.0402	0.0104	0.5875	0.3445	0.2430	-1.7200
27	18.05	-0.00	3.5275	-7.1143	-0.0155	0.0963	0.0116	0.5981	0.3378	0.2603	-2.0168
28	13.99	-0.00	2.6419	-5.8518	-0.0216	0.0982	0.0125	0.5773	0.3100	0.2673	-2.2150
29	9.97	-0.00	1.8397	-4.3945	-0.0256	0.0984	0.0113	0.5520	0.2929	0.2591	-2.3887
30	5.97	-0.00	1.0844	-2.7200	-0.0272	0.1130	0.0099	0.5033	0.2473	0.2560	-2.5083
31	1.99	-0.00	0.3427	-0.8649	-0.0329	0.1223	0.0109	0.4935	0.1965	0.2970	-2.5237
32	-0.01	-0.00	0.0208	-0.1194	-0.0359	0.1224	0.0123	0.4884	0.2050	0.2834	-5.7434

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	16	1.10	2.3	0.0	W4W0F12	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	ACP
1	-0.00	-0.01	0.0045	-0.0274	-0.0469	0.1763	0.0124	0.5259	0.2148	0.3112	-3.2133
2	1.99	-0.01	0.3478	-0.8370	-0.0491	0.2019	0.0142	0.5277	0.2200	0.3077	-2.4065
3	3.99	-0.01	0.6795	-1.6067	-0.0454	0.1827	0.0127	0.5242	0.2291	0.2951	-2.3645
4	5.99	-0.01	1.0609	-2.5414	-0.0396	0.1673	0.0143	0.5339	0.2239	0.3100	-2.3955
5	7.99	-0.01	1.4109	-3.2852	-0.0347	0.1349	0.0184	0.5484	0.2452	0.3032	-2.3285
6	9.98	-0.01	1.7859	-4.0849	-0.0293	0.1266	0.0125	0.5661	0.2476	0.3185	-2.2873
7	12.00	-0.01	2.1740	-4.8066	-0.0278	0.1256	0.0109	0.5746	0.2532	0.3214	-2.2101
8	12.00	-0.01	2.1695	-4.8051	-0.0268	0.1298	0.0124	0.5694	0.2626	0.3067	-2.2149
9	14.02	-0.01	2.5731	-5.4368	-0.0256	0.1257	0.0120	0.5780	0.2640	0.3139	-2.1129
10	16.04	-0.01	2.9828	-6.0203	-0.0223	0.1260	0.0086	0.5844	0.2706	0.3138	-2.0183
11	17.07	-0.01	3.2293	-6.3505	-0.0136	0.1144	0.0053	0.5908	0.2785	0.3123	-1.9665
13	20.13	-0.01	3.9659	-7.0700	-0.0052	0.1051	0.0055	0.5817	0.3062	0.2755	-1.7827
14	21.16	-0.01	4.2419	-7.2297	0.0006	0.1047	0.0049	0.5736	0.3046	0.2690	-1.7043
15	22.21	-0.01	4.5358	-7.3699	0.0113	0.0701	0.0054	0.5619	0.3099	0.2520	-1.6248
16	23.26	-0.01	4.8273	-7.4612	0.0332	0.0195	0.0101	0.5501	0.3145	0.2357	-1.5498
17	24.32	-0.01	5.1462	-7.5248	0.0574	-0.0316	0.0131	0.5369	0.3135	0.2235	-1.4622
18	25.37	-0.00	5.4645	-7.5543	0.0845	-0.0654	0.0187	0.5242	0.3145	0.2097	-1.3824
19	26.44	-0.00	5.7948	-7.5831	0.0616	-0.0851	0.0172	0.5146	0.3202	0.1944	-1.3086
20	27.46	0.01	6.0845	-7.6032	0.1670	-0.3469	0.0536	0.5083	0.3255	0.1828	-1.2551
21	28.54	0.00	6.4600	-7.7103	0.1320	-0.2464	0.0245	0.4995	0.3320	0.1675	-1.1935
22	29.58	-0.00	6.7566	-7.8426	0.1261	-0.2008	0.0077	0.4919	0.3372	0.1547	-1.1608
23	30.65	-0.00	7.0647	-7.9203	0.1920	-0.3575	0.0273	0.4822	0.3414	0.1408	-1.1211
24	20.14	-0.01	3.9456	-6.9809	-0.0112	0.1295	0.0071	0.5785	0.3202	0.2583	-1.7708
26	-0.00	-0.01	0.0048	-0.0181	-0.0365	0.1473	0.0151	0.5211	0.2429	0.2783	-3.9148

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RN/D-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	17	1.20	2.3	0.0	B4B0F12	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	0.00	-0.00	-0.0137	0.0569	-0.0218	0.0714	0.0124	0.5152	0.1839	0.3313	-3.9891
2	2.00	-0.00	0.3135	-0.6603	-0.0228	0.0755	0.0125	0.5155	0.1943	0.3211	-2.1062
3	4.00	-0.00	0.6522	-1.4447	-0.0158	0.0626	0.0140	0.5148	0.1952	0.3196	-2.2151
4	6.00	-0.00	0.9607	-2.2042	-0.0128	0.0557	0.0140	0.5214	0.2048	0.3166	-2.2249
5	8.00	-0.00	1.3594	-2.9802	-0.0095	0.0503	0.0140	0.5365	0.2069	0.3295	-2.1923
6	10.00	-0.00	1.7339	-3.7106	-0.0062	0.0463	0.0124	0.5472	0.2129	0.3343	-2.1409
7	12.01	-0.00	2.1119	-4.3523	-0.0010	0.0351	0.0092	0.5579	0.2178	0.3401	-2.0608
9	16.06	-0.00	2.9283	-5.4110	0.0066	0.0224	0.0081	0.5672	0.2388	0.3234	-1.8478
10	17.11	-0.00	3.1675	-5.6612	0.0099	0.0173	0.0048	0.5656	0.2443	0.3213	-1.7873
11	18.14	-0.00	3.4204	-5.8697	0.0124	0.0157	0.0057	0.5652	0.2546	0.3107	-1.7161
12	19.18	-0.00	3.6992	-6.0527	0.0140	0.0124	0.0051	0.5626	0.2610	0.3017	-1.6362
13	20.22	-0.00	3.9864	-6.1886	0.0206	0.0057	0.0057	0.5568	0.2665	0.2904	-1.5525
14	21.27	-0.00	4.2896	-6.3216	0.0224	0.0063	0.0050	0.5511	0.2721	0.2790	-1.4737
15	22.33	-0.00	4.5921	-6.3986	0.0245	0.0057	0.0051	0.5424	0.2728	0.2696	-1.3934
16	23.37	-0.00	4.8913	-6.4712	0.0323	-0.0147	0.0065	0.5347	0.2773	0.2574	-1.3230
18	25.49	0.00	5.5405	-6.5980	0.1072	-0.1951	0.0279	0.5232	0.2911	0.2321	-1.1905
19	26.54	0.00	5.8704	-6.6563	0.1281	-0.2417	0.0344	0.5214	0.2948	0.2266	-1.1331
20	27.61	0.00	6.2045	-6.7080	0.1500	-0.2960	0.0371	0.5180	0.2986	0.2194	-1.0876
21	28.66	0.00	6.5366	-6.8816	0.1632	-0.3282	0.0327	0.5144	0.3023	0.2123	-1.0528
22	29.69	0.00	6.8522	-7.0438	0.2084	-0.4346	0.0265	0.5109	0.3064	0.2045	-1.0280
23	30.75	-0.00	7.2405	-7.2705	0.1639	-0.2770	0.0124	0.5037	0.3155	0.1881	-1.0041
24	20.22	-0.00	3.9855	-6.1475	0.0177	0.0100	0.0071	0.5568	0.2811	0.2757	-1.5425
25	10.00	-0.00	1.7214	-3.7003	-0.0042	0.0423	0.0138	0.5396	0.2589	0.2807	-2.1496
26	0.00	-0.00	-0.0259	0.0793	-0.0198	0.0648	0.0136	0.5166	0.2091	0.3075	-3.0684

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	18	1.30	2.3	0.0	B4W0F12	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
2	-0.00	-0.00	0.0069	-0.0401	-0.0240	0.0720	0.0119	0.4809	0.1756	0.3053	-5.8152
3	2.00	-0.00	0.2819	-0.5573	-0.0205	0.0778	0.0205	0.4893	0.1855	0.3037	-1.9773
4	4.01	-0.00	0.5995	-1.2245	-0.0216	0.0839	0.0191	0.4900	0.1937	0.2962	-2.0424
5	6.02	-0.00	0.9240	-1.9044	-0.0195	0.0904	0.0191	0.5030	0.1952	0.3078	-2.0588
6	8.03	-0.01	1.2735	-2.5692	-0.0117	0.0821	0.0176	0.5141	0.1998	0.3143	-2.0175
7	10.03	-0.00	1.6328	-3.1930	-0.0144	0.0814	0.0159	0.5215	0.2058	0.3157	-1.9555
9	14.11	-0.00	2.4056	-4.2346	-0.0045	0.0503	0.0175	0.5309	0.2287	0.3022	-1.7001
10	16.16	-0.00	2.8598	-4.6776	-0.0010	0.0419	0.0152	0.5373	0.2327	0.3046	-1.6356
11	17.17	-0.00	3.1097	-4.8656	-0.0004	0.0477	0.0161	0.5366	0.2387	0.2980	-1.5646
12	18.22	-0.00	3.3887	-5.0235	0.0021	0.0418	0.0168	0.5356	0.2440	0.2916	-1.4824
13	19.27	-0.00	3.6783	-5.1632	0.0059	0.0413	0.0172	0.5325	0.2501	0.2824	-1.4037
14	20.30	-0.00	3.9806	-5.2938	0.0165	0.0197	0.0174	0.5293	0.2557	0.2736	-1.3298
15	21.36	-0.00	4.2845	-5.3605	0.0244	0.0043	0.0186	0.5237	0.2572	0.2665	-1.2509
16	22.41	-0.00	4.5816	-5.4225	0.0291	-0.0001	0.0188	0.5209	0.2623	0.2586	-1.1835
17	23.47	-0.00	4.8797	-5.4784	0.0243	0.0045	0.0176	0.5163	0.2675	0.2508	-1.1228
18	24.54	-0.00	5.2101	-5.5314	0.0267	0.0042	0.0161	0.5179	0.2722	0.2457	-1.0618
19	25.59	-0.00	5.5211	-5.5922	0.0523	-0.0443	0.0214	0.5166	0.2768	0.2398	-1.0129
20	26.64	-0.00	5.8705	-5.7105	0.0811	-0.1144	0.0305	0.5192	0.2842	0.2350	-0.9728
21	27.69	-0.00	6.2191	-5.8748	0.0703	-0.0862	0.0296	0.5222	0.2909	0.2313	-0.9454
23	29.80	-0.00	6.9431	-6.3229	0.0998	-0.1518	0.0199	0.5270	0.3188	0.2082	-0.9107
24	30.88	-0.00	7.3357	-6.5567	0.1086	-0.1561	0.0185	0.5269	0.3231	0.2038	-0.8938
25	26.65	-0.00	5.8741	-5.6119	0.0850	-0.1207	0.0330	0.5212	0.3163	0.2049	-0.9554
26	22.42	-0.00	4.5845	-5.3691	0.0252	0.0012	0.0215	0.5264	0.3158	0.2106	-1.1699
27	18.21	-0.00	3.3898	-5.0423	0.0029	0.0325	0.0238	0.5457	0.3191	0.2266	-1.4875
28	18.21	-0.00	3.3966	-5.0484	0.0014	0.0394	0.0236	0.5407	0.3015	0.2392	-1.4863
29	14.06	-0.00	2.4061	-4.2400	0.0014	0.0397	0.0214	0.5308	0.2666	0.2440	-1.7622
30	10.03	-0.00	1.6345	-3.1914	-0.0131	0.0407	0.0212	0.5254	0.2727	0.2527	-1.9525
31	6.02	-0.00	0.9380	-1.9271	-0.0191	0.0790	0.0256	0.5052	0.2623	0.2429	-2.0545
32	2.00	-0.00	0.2859	-0.5442	-0.0239	0.0754	0.0254	0.4944	0.2417	0.2527	-1.9038
33	0.00	-0.00	-0.0113	0.0756	-0.0215	0.0643	0.0238	0.4930	0.2260	0.2670	-0.6698

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RN/M-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	19	0.90	2.3	0.0	B4=0F12	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
2	1.99	-0.00	0.3038	-0.7290	-0.0286	0.0991	0.0265	0.2731	0.0992	0.1739	-2.3993
3	1.99	-0.00	0.3047	-0.7407	-0.0307	0.1036	0.0280	0.2756	0.1009	0.1747	-2.4310
4	3.99	-0.00	0.6400	-1.5605	-0.0267	0.0989	0.0283	0.2692	0.1158	0.1535	-2.4381
5	5.97	-0.00	1.0191	-2.5614	-0.0264	0.1042	0.0271	0.2649	0.1155	0.1494	-2.5134
6	7.96	-0.00	1.4447	-3.6929	-0.0256	0.0958	0.0258	0.3071	0.1320	0.1751	-2.5491
7	9.95	-0.00	1.8663	-4.7274	-0.0204	0.0956	0.0228	0.3295	0.1467	0.1827	-2.5358
8	11.95	-0.00	2.2829	-5.8547	-0.0165	0.0899	0.0179	0.3530	0.1548	0.1983	-2.4792
9	13.95	-0.00	2.6947	-6.9984	-0.0162	0.0940	0.0212	0.3534	0.1703	0.1831	-2.4115
11	14.97	-0.01	3.3532	-7.6317	-0.0211	0.1492	0.0377	0.3673	0.2166	0.1508	-2.2759
12	18.01	-0.01	3.5119	-7.7254	-0.0238	0.1660	0.0390	0.3680	0.2242	0.1438	-2.1998
13	19.03	-0.01	3.6604	-7.7869	-0.0192	0.1413	0.0237	0.3743	0.2397	0.1346	-2.1273
14	20.04	-0.00	3.8660	-7.9554	-0.0050	0.0733	0.0096	0.3949	0.2468	0.1481	-2.0578
15	21.07	-0.00	4.0842	-8.1876	-0.0015	0.0793	0.0158	0.3990	0.2569	0.1420	-2.0027
16	22.08	-0.00	4.2833	-8.2991	0.0104	0.0659	0.0299	0.3984	0.2749	0.1235	-1.9375
17	23.12	-0.00	4.4802	-8.3034	0.0032	0.0965	0.0554	0.4063	0.2839	0.1224	-1.8534
18	24.15	-0.01	4.6690	-8.2656	0.0151	0.1229	0.0762	0.4006	0.2985	0.1021	-1.7703
19	24.15	-0.00	4.6825	-8.3159	0.0062	0.1301	0.0796	0.4053	0.3137	0.0916	-1.7759
20	25.20	-0.00	4.8954	-8.2881	0.0213	0.0752	0.0751	0.3952	0.3274	0.0678	-1.6930
21	26.22	-0.00	5.1762	-8.3459	0.0461	0.0262	0.0757	0.3858	0.3480	0.0378	-1.6124
22	27.26	-0.00	5.4415	-8.2759	0.0707	-0.0077	0.0841	0.3676	0.3531	0.0145	-1.5209
23	28.35	0.00	5.8410	-8.2799	0.0877	-0.0614	0.0933	0.3529	0.3511	0.0018	-1.4176
24	29.42	-0.00	6.1353	-8.2228	0.0873	-0.0517	0.0838	0.3348	0.3562	-0.0214	-1.3402
25	30.46	-0.00	6.4453	-8.1089	0.1350	-0.1328	0.0944	0.3233	0.3632	-0.0399	-1.2581
26	26.23	-0.00	5.1574	-8.2987	0.0414	0.0370	0.0725	0.3904	0.3651	0.0253	-1.6091
27	22.09	-0.00	4.2548	-8.2575	0.0068	0.0747	0.0283	0.3986	0.3498	0.0485	-1.9408
29	13.04	-0.00	2.7156	-6.5657	-0.0125	0.0922	0.0197	0.3327	0.2204	0.1122	-2.4180
30	9.96	-0.00	1.8850	-4.7695	-0.0178	0.0934	0.0195	0.3160	0.1911	0.1249	-2.5305
31	5.97	-0.00	1.0323	-2.6035	-0.0251	0.1059	0.0223	0.2649	0.1787	0.0862	-2.5221
32	2.00	-0.00	0.3056	-0.7429	-0.0274	0.1010	0.0232	0.2715	0.1263	0.1451	-2.4305
33	-0.00	-0.00	0.0016	-0.0583	-0.0288	0.1019	0.0248	0.2677	0.1207	0.1470	-36.8062

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	REID-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	22	0.80	2.3	0.0	84 OF 13	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-0.01	-0.00	0.0517	-0.2079	-0.0290	0.0849	-0.0088	0.2528	0.1077	0.1451	-4.0236
2	-0.01	-0.00	0.0623	-0.2286	-0.0265	0.0856	-0.0088	0.2540	0.1053	0.1467	-3.6686
3	-0.01	-0.00	0.0645	-0.2266	-0.0275	0.0869	-0.0069	0.2420	0.1086	0.1334	-3.5155
4	-0.01	-0.00	0.0645	-0.2270	-0.0301	0.0907	-0.0069	0.2414	0.1050	0.1365	-3.5166
5	-0.01	-0.00	0.0623	-0.2202	-0.0316	0.0933	-0.0069	0.2378	0.1036	0.1342	-3.5323
6	1.98	-0.00	0.3818	-0.9713	-0.0304	0.0951	-0.0086	0.2371	0.1039	0.1331	-2.5440
7	3.98	-0.00	0.7434	-1.8707	-0.0285	0.0976	-0.0102	0.2320	0.1059	0.1260	-2.5162
8	5.98	-0.00	1.1225	-2.8960	-0.0294	0.1096	-0.0132	0.2356	0.1163	0.1192	-2.5799
9	7.96	-0.00	1.4701	-3.7722	-0.0266	0.1061	-0.0149	0.2582	0.1298	0.1285	-2.5660
10	9.96	-0.00	1.8396	-4.6495	-0.0284	0.1145	-0.0148	0.2738	0.1449	0.1290	-2.4731
11	11.98	-0.01	2.1439	-5.1437	-0.0338	0.1357	-0.0130	0.2859	0.1573	0.1286	-2.3992
12	14.00	-0.00	2.3445	-5.1703	-0.0297	0.1149	0.0007	0.3082	0.1798	0.1283	-2.2053
13	16.03	-0.01	2.5285	-5.0398	-0.0281	0.1312	-0.0074	0.3495	0.2263	0.1232	-1.9932
14	17.05	-0.01	2.6445	-5.0427	-0.0208	0.1059	-0.0153	0.3685	0.2761	0.0925	-1.9069
15	18.08	-0.00	2.7646	-5.0142	-0.0236	0.0911	-0.0198	0.3892	0.3091	0.0801	-1.8137
16	19.10	-0.00	2.8761	-4.8526	0.0152	-0.0617	-0.0387	0.4252	0.3375	0.0878	-1.6872
17	19.10	0.00	2.8255	-4.7495	0.0321	-0.1351	-0.0479	0.4336	0.3306	0.1031	-1.6811
18	20.12	0.00	2.9477	-4.6634	0.0442	-0.1820	-0.0512	0.4681	0.3632	0.1049	-1.5820
19	21.16	-0.01	3.0686	-4.5564	0.0060	0.0616	-0.0220	0.5071	0.3876	0.1195	-1.4850
20	22.16	-0.00	3.2769	-4.8305	-0.0135	0.0626	-0.0225	0.5179	0.4066	0.1113	-1.4741
21	23.18	-0.01	3.4437	-4.9512	-0.0175	0.0916	-0.0227	0.5258	0.4184	0.1074	-1.4377
22	24.20	-0.01	3.6423	-5.1536	-0.0054	0.0843	-0.0231	0.5279	0.4329	0.0950	-1.4149
23	25.21	-0.01	3.8443	-5.3671	0.0031	0.0825	-0.0237	0.5313	0.4503	0.0810	-1.3889
24	26.23	-0.01	4.0565	-5.5672	0.0293	0.0472	-0.0205	0.5261	0.4606	0.0655	-1.3724
25	27.25	-0.01	4.3013	-5.8733	0.0443	-0.0055	-0.0049	0.5223	0.4717	0.0506	-1.3655
26	28.26	-0.01	4.5541	-6.1943	0.1568	-0.2049	-0.0046	0.5134	0.4746	0.0388	-1.3601
27	29.29	-0.00	4.8394	-6.5941	0.2176	-0.3660	0.0320	0.5001	0.4848	0.0154	-1.3626
28	30.30	0.00	5.1034	-6.8561	0.2344	-0.4565	0.0434	0.4875	0.4960	-0.0085	-1.3434

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	24	0.65	2.3	0.0	84=0F13	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-0.01	-0.00	0.0376	-0.1958	-0.0316	0.0915	-0.0084	0.2467	0.1049	0.1438	-5.2057
2	1.99	-0.00	0.3520	-0.9714	-0.0279	0.0827	-0.0083	0.2442	0.1045	0.1397	-2.6174
3	1.99	-0.00	0.3611	-0.9937	-0.0277	0.0866	-0.0100	0.2447	0.1058	0.1389	-2.5869
4	1.99	-0.00	0.3678	-0.9929	-0.0276	0.0863	-0.0100	0.2423	0.1255	0.1168	-2.5635
5	3.98	-0.00	0.7235	-1.8586	-0.0287	0.0936	-0.0078	0.2339	0.1108	0.1231	-2.5607
6	5.96	-0.00	1.1240	-2.9552	-0.0267	0.0958	-0.0092	0.2372	0.1152	0.1220	-2.6292
7	7.96	-0.00	1.4718	-3.8567	-0.0222	0.0899	-0.0107	0.2579	0.1182	0.1397	-2.5864
8	9.95	-0.00	1.8107	-4.8895	-0.0243	0.0923	-0.0107	0.2763	0.1327	0.1435	-2.5347
9	11.96	-0.00	2.1234	-5.1349	-0.0255	0.1027	-0.0108	0.2899	0.1488	0.1411	-2.4182
10	13.99	-0.00	2.3884	-5.3896	-0.0125	0.0501	-0.0101	0.3118	0.1726	0.1391	-2.2566
11	13.96	-0.00	2.3939	-5.4207	-0.0106	0.0489	-0.0117	0.3154	0.2099	0.1054	-2.2645
12	16.02	-0.00	2.5770	-5.2694	-0.0154	0.0876	-0.0072	0.3561	0.2415	0.1146	-2.0458
13	17.05	-0.00	2.6854	-5.2178	-0.0100	0.0664	-0.0150	0.3807	0.2692	0.1114	-1.9430
14	17.05	-0.00	2.6981	-5.2586	-0.0047	0.0583	-0.0132	0.3846	0.2826	0.1020	-1.9488
15	18.07	-0.00	2.7885	-5.1647	0.0007	0.0251	-0.0192	0.4087	0.3046	0.1041	-1.8521
16	19.11	0.00	2.8445	-4.7423	0.0585	-0.2173	-0.0490	0.4604	0.3276	0.1327	-1.6472
17	20.14	0.00	2.9250	-4.6162	0.0364	-0.1193	-0.0328	0.4869	0.3488	0.1381	-1.5782
18	21.16	-0.01	3.0794	-4.6300	-0.0116	0.0801	-0.0157	0.5168	0.3787	0.1381	-1.5035
19	22.17	-0.01	3.2655	-4.7585	-0.0162	0.1034	-0.0144	0.5255	0.4052	0.1203	-1.4572
20	22.17	-0.01	3.2596	-4.7670	-0.0147	0.1048	-0.0142	0.5264	0.4057	0.1207	-1.4625
21	23.20	-0.01	3.4901	-4.9965	-0.0089	0.0940	-0.0167	0.5310	0.4192	0.1118	-1.4318
22	24.21	-0.01	3.6378	-5.2011	0.0042	0.0765	-0.0225	0.5313	0.4310	0.1003	-1.4065
23	25.23	-0.01	3.9183	-5.4454	0.0415	0.0129	-0.0214	0.5301	0.4347	0.0954	-1.3897
24	26.26	-0.01	4.1396	-5.6779	0.0676	-0.0342	-0.0152	0.5265	0.4511	0.0754	-1.3716
25	27.27	-0.01	4.4071	-6.0007	0.1422	-0.2282	0.0041	0.5215	0.4654	0.0561	-1.3616
26	28.29	-0.00	4.6656	-6.3433	0.2677	-0.4923	0.0260	0.5111	0.4618	0.0493	-1.3596
27	29.30	0.00	4.9656	-6.7299	0.4115	-0.7768	0.0912	0.4928	0.4809	0.0120	-1.3553
28	30.33	0.00	5.2507	-6.9752	0.4584	-0.8575	0.1023	0.4849	0.4876	-0.0027	-1.3284

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	30	0.9	2.3	0.0	B4W0F13	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-0.01	-0.00	0.0283	-0.1545	-0.0290	0.0912	-0.0080	0.2926	0.1004	0.1923	-5.4637
2	-0.01	-0.00	0.0330	-0.1613	-0.0290	0.0910	-0.0080	0.2914	0.1041	0.1873	-4.8927
3	2.00	-0.00	0.3124	-0.7381	-0.0235	0.0406	-0.0148	0.2849	0.1063	0.1786	-2.3628
4	3.98	-0.00	0.6806	-1.6791	-0.0245	0.0925	-0.0077	0.2800	0.1053	0.1747	-2.4669
5	5.97	-0.00	1.0623	-2.7080	-0.0245	0.0947	-0.0023	0.2795	0.1200	0.1596	-2.5492
6	7.96	-0.00	1.5021	-3.9327	-0.0154	0.0587	-0.0071	0.3000	0.1191	0.1809	-2.6181
7	9.94	-0.00	1.8703	-4.8431	-0.0109	0.0504	-0.0102	0.3234	0.1391	0.1843	-2.5895
8	11.96	-0.00	2.1472	-5.3008	-0.0054	0.0529	-0.0156	0.3458	0.1566	0.1891	-2.4687
9	13.95	-0.01	2.4745	-5.7757	0.0050	0.0652	-0.0157	0.3660	0.1830	0.1830	-2.3341
10	15.99	-0.01	2.7652	-6.0496	0.0218	0.0345	-0.0164	0.3921	0.2148	0.1773	-2.1878
11	17.03	-0.01	2.8460	-5.9451	0.0004	0.0918	-0.0067	0.4114	0.2469	0.1645	-2.0889
12	18.07	-0.00	2.9347	-5.7248	0.0099	0.0176	-0.0214	0.4454	0.2693	0.1762	-1.9507
13	19.08	-0.00	3.0081	-5.4841	0.0465	-0.0916	-0.0348	0.4824	0.2921	0.1903	-1.8165
14	20.10	-0.00	3.1046	-5.2880	0.0584	-0.1424	-0.0394	0.5127	0.3311	0.1815	-1.7033
15	21.14	-0.00	3.2032	-5.3788	0.0350	-0.0941	-0.0296	0.5271	0.3453	0.1818	-1.6284
16	22.15	-0.00	3.4612	-5.5436	0.0268	-0.0076	-0.0188	0.5392	0.3617	0.1775	-1.6016
17	23.20	-0.01	3.7044	-5.6342	-0.0085	0.0759	-0.0173	0.5483	0.3793	0.1690	-1.5209
18	24.22	-0.01	3.9139	-5.8408	0.0098	0.0626	-0.0193	0.5568	0.4015	0.1552	-1.4923
19	25.25	-0.01	4.0949	-5.8295	0.0275	0.0438	-0.0103	0.5520	0.4235	0.1285	-1.4236
20	26.25	-0.01	4.3427	-6.0879	0.0644	-0.0297	0.0003	0.5530	0.4373	0.1158	-1.4019
21	27.31	-0.01	4.6355	-6.1572	0.1576	-0.1890	0.0330	0.5467	0.4523	0.0944	-1.3283
22	28.37	-0.00	4.9080	-6.4965	0.1594	-0.2314	0.0421	0.5408	0.4534	0.0874	-1.2218
23	29.39	-0.00	5.1674	-6.1016	0.2493	-0.3998	0.0527	0.5321	0.4922	0.0399	-1.1807
24	30.47	-0.00	5.5233	-6.0634	0.2022	-0.3235	0.0432	0.5235	0.5100	0.0135	-1.0978
25	30.47	-0.00	5.5206	-5.9753	0.2151	-0.3200	0.0482	0.5218	0.4951	0.0265	-1.0824

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RE10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	31	0.94	2.3	0.0	84=OF13	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-0.01	-0.00	0.0278	-0.1675	-0.0273	0.0914	0.0003	0.3144	0.1092	0.2051	-6.0258
2	1.99	-0.00	0.3621	-0.9700	-0.0279	0.0916	0.0038	0.3022	0.1122	0.1900	-2.6786
3	3.98	-0.00	0.7485	-2.0050	-0.0231	0.0874	0.0041	0.3022	0.1211	0.1811	-2.6787
4	5.95	-0.00	1.1453	-3.1284	-0.0192	0.0624	0.0061	0.3062	0.1287	0.1776	-2.7298
5	7.93	-0.00	1.5991	-4.3629	-0.0135	0.0456	0.0081	0.3265	0.1354	0.1911	-2.7488
6	7.93	-0.00	1.6013	-4.4161	-0.0144	0.0485	0.0048	0.3327	0.1387	0.1941	-2.7578
7	9.94	-0.00	1.8773	-4.9167	-0.0115	0.0367	-0.0003	0.3392	0.1571	0.1820	-2.6190
8	9.93	-0.00	1.9606	-5.1515	-0.0169	0.0517	0.0015	0.3550	0.1497	0.2053	-2.6275
9	11.94	-0.00	2.2197	-5.5754	-0.0141	0.0480	0.0045	0.3706	0.1717	0.1990	-2.5118
10	13.95	-0.00	2.5764	-6.2386	-0.0065	0.0507	0.0012	0.3906	0.2191	0.1716	-2.4214
11	15.97	-0.00	2.8480	-6.6081	0.0178	-0.0040	-0.0081	0.4098	0.2455	0.1643	-2.2508
12	17.00	-0.00	2.9845	-6.8232	0.0049	0.0228	-0.0002	0.4270	0.2755	0.1515	-2.1631
13	18.04	-0.01	3.0651	-6.2121	0.0224	0.0139	-0.0091	0.4503	0.2988	0.1515	-2.0267
14	19.06	-0.00	3.1856	-5.9883	0.0264	-0.0085	-0.0183	0.4816	0.3145	0.1670	-1.8791
15	20.11	-0.00	3.1520	-5.4200	0.0430	-0.0820	-0.0234	0.5225	0.3439	0.1786	-1.7195
16	20.10	-0.00	3.2086	-5.6567	0.0403	-0.0845	-0.0246	0.5101	0.3536	0.1565	-1.7635
17	21.13	0.00	3.3865	-5.6832	0.0283	-0.0823	-0.0237	0.5311	0.3689	0.1622	-1.6792
18	22.16	-0.00	3.5430	-5.6832	0.0096	-0.0219	-0.0140	0.5445	0.3894	0.1551	-1.6041
19	23.20	-0.00	3.7611	-5.7739	-0.0048	0.0596	0.0073	0.5582	0.3960	0.1622	-1.5352
20	24.22	-0.00	4.0014	-5.8900	-0.0081	0.0826	0.0084	0.5650	0.4198	0.1452	-1.4720
22	25.27	-0.01	4.2616	-5.4924	0.0428	0.0079	0.0217	0.5648	0.4635	0.1013	-1.4061
23	26.30	-0.00	4.4998	-6.0081	0.1011	-0.1100	0.0392	0.5584	0.4715	0.0869	-1.3352
24	27.36	-0.00	4.8202	-5.9955	0.1745	-0.2679	0.0624	0.5553	0.4795	0.0757	-1.2438
25	28.41	-0.00	5.1291	-5.8868	0.1871	-0.2997	0.0585	0.5481	0.4802	0.0679	-1.1477
26	29.46	0.00	5.4891	-5.7798	0.2163	-0.3737	0.0748	0.5474	0.4855	0.0569	-1.0531
27	30.45	-0.00	5.8308	-5.6716	0.1735	-0.2647	0.0545	0.5349	0.5206	0.0143	-0.9727
28	20.10	0.00	3.2587	-5.8636	0.0573	-0.1698	-0.0316	0.5041	0.4533	0.0508	-1.7096
29	9.93	-0.00	1.9072	-5.0441	-0.0119	0.0446	0.0080	0.3455	0.2498	0.0957	-2.6448
30	-0.01	-0.00	0.0324	-0.1936	-0.0327	0.0990	0.0101	0.3189	0.1461	0.1728	-5.9798

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	32	0.96	2.3	0.0	B4W0F13	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-0.01	-0.00	0.0251	-0.1850	-0.0301	0.1021	0.0116	0.3492	0.1091	0.2402	-7.3662
2	1.98	-0.00	0.3794	-1.0886	-0.0272	0.0891	0.0151	0.3424	0.1232	0.2191	-2.8692
3	1.98	-0.00	0.3866	-1.1154	-0.0269	0.0863	0.0150	0.3434	0.1228	0.2206	-2.8861
4	3.96	-0.00	0.7791	-2.1952	-0.0233	0.0790	0.0122	0.3405	0.1276	0.2129	-2.8175
5	5.94	-0.00	1.1953	-3.3830	-0.0180	0.0629	0.0127	0.3469	0.1452	0.2017	-2.8302
6	7.92	-0.00	1.6205	-4.5482	-0.0137	0.0504	0.0098	0.3652	0.1541	0.2111	-2.8064
7	9.91	-0.00	2.0175	-5.5618	-0.0176	0.0501	0.0164	0.3826	0.1672	0.2154	-2.7568
8	11.94	-0.00	2.3126	-6.9502	-0.0125	0.0364	0.0112	0.3876	0.1882	0.1994	-2.5729
9	11.94	-0.00	2.3201	-6.0036	-0.0121	0.0432	0.0112	0.3963	0.1954	0.2009	-2.5877
10	13.94	-0.00	2.6626	-6.5271	-0.0042	0.0345	0.0077	0.4094	0.2232	0.1862	-2.4699
11	13.94	-0.00	2.6785	-6.6368	-0.0024	0.0275	0.0077	0.4166	0.2470	0.1696	-2.4778
12	15.97	-0.00	2.9899	-6.9131	-0.0027	0.0614	0.0220	0.4324	0.2675	0.1649	-2.3121
13	16.96	-0.00	3.1016	-6.9045	0.0115	0.0092	0.0081	0.4359	0.2791	0.1568	-2.2261
14	18.00	-0.00	3.2960	-7.1439	0.0203	-0.0086	0.0013	0.4524	0.2787	0.1737	-2.1674
15	19.04	-0.00	3.4189	-7.0624	0.0212	-0.0096	0.0007	0.4600	0.2918	0.1683	-2.0657
16	20.06	0.00	3.4572	-6.6201	0.0656	-0.1880	-0.0423	0.4835	0.3128	0.1707	-1.9149
17	21.12	0.01	3.6430	-6.4346	0.0652	-0.3051	-0.0542	0.5089	0.3271	0.1818	-1.7663
18	22.16	0.00	3.7089	-6.0510	0.0449	-0.1181	-0.0147	0.5398	0.3549	0.1849	-1.6315
19	22.16	0.00	3.7309	-6.1659	0.0548	-0.1923	-0.0266	0.5330	0.4035	0.1295	-1.6473
20	23.20	-0.00	3.8940	-5.9872	-0.0031	0.0360	0.0133	0.5589	0.4058	0.1530	-1.5375
21	24.23	-0.00	4.1200	-5.9906	0.0259	0.0435	0.0305	0.5963	0.4170	0.1493	-1.4541
22	24.24	-0.00	4.1735	-6.0162	0.0331	0.0214	0.0362	0.5684	0.4261	0.1423	-1.4415
23	25.28	-0.00	4.4583	-6.0706	0.0726	-0.0335	0.0522	0.5714	0.4351	0.1362	-1.3616
24	26.33	-0.00	4.6916	-6.0539	0.1225	-0.1492	0.0668	0.5672	0.4582	0.1089	-1.2903
25	26.33	-0.00	4.7032	-6.0686	0.1214	-0.1427	0.0715	0.5700	0.4629	0.1070	-1.2903
26	27.40	0.00	5.0575	-5.9870	0.1465	-0.2055	0.0895	0.5668	0.4678	0.0989	-1.1838
27	28.48	-0.00	5.3998	-5.8194	0.1342	-0.1692	0.0650	0.5635	0.4737	0.0899	-1.0777
28	29.54	0.00	5.7605	-5.7153	0.1660	-0.2469	0.0766	0.5562	0.4765	0.0797	-0.9922
29	30.61	-0.00	6.1135	-5.6189	0.1441	-0.2145	0.0556	0.5475	0.4972	0.0503	-0.9191
30	20.07	0.00	3.4930	-6.7567	0.0530	-0.1573	-0.0276	0.4792	0.3641	0.1151	-1.9344
31	9.91	-0.00	2.0458	-5.6271	-0.0137	0.0635	0.0230	0.3828	0.2676	0.1151	-2.7505
32	-0.01	-0.00	0.0923	-0.3321	-0.0365	0.1275	0.0179	0.3850	0.1756	0.2095	-3.5977
33	-0.01	-0.00	0.0230	-0.1787	-0.0337	0.0980	0.0164	0.3425	0.1580	0.1845	-7.7458

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) — PROPULSION WIND TUNNEL FACILITY(PWT) — AERODYNAMIC WIND TUNNEL(4T)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	33	0.90	2.3	0.0	B4W0F13	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-0.01	-0.00	0.0430	-0.2484	-0.0427	0.1274	0.0179	0.3939	0.1395	0.2544	-5.7860
2	1.98	-0.00	0.4014	-1.1644	-0.0330	0.1061	0.0182	0.3770	0.1488	0.2282	-2.8993
3	3.96	-0.00	0.8094	-2.2623	-0.0215	0.0761	0.0185	0.3688	0.1586	0.2102	-2.7951
4	3.96	-0.00	0.7928	-2.2357	-0.0225	0.0788	0.0167	0.3838	0.1464	0.2374	-2.8198
5	5.94	-0.00	1.2171	-3.4173	-0.0185	0.0689	0.0157	0.3799	0.1739	0.2060	-2.8081
6	5.94	-0.00	1.2190	-3.4264	-0.0204	0.0752	0.0157	0.3896	0.1743	0.2155	-2.8109
7	7.92	-0.00	1.6314	-4.5604	-0.0198	0.0548	0.0144	0.3974	0.1885	0.2090	-2.7954
8	9.91	-0.00	2.0816	-5.8663	-0.0189	0.0516	0.0195	0.4217	0.1994	0.2223	-2.7485
9	11.90	0.00	2.4531	-6.9582	-0.0175	0.0448	0.0243	0.4375	0.2025	0.2350	-2.6734
10	13.93	0.00	2.7096	-6.7695	-0.0163	0.0450	0.0271	0.4323	0.2264	0.2059	-2.5057
11	13.93	0.00	2.7582	-6.9127	-0.0186	0.0575	0.0334	0.4441	0.2293	0.2148	-2.5062
12	15.94	-0.00	3.0875	-7.3173	-0.0030	0.0287	0.0184	0.4591	0.2487	0.2104	-2.3708
13	16.98	-0.00	3.2181	-7.3142	0.0001	0.0300	0.0196	0.4564	0.2730	0.1834	-2.2728
14	16.97	-0.00	3.2833	-7.5350	0.0056	0.0153	0.0132	0.4708	0.2764	0.1943	-2.2949
15	18.01	-0.00	3.4280	-7.5555	0.0058	0.0361	0.0225	0.4729	0.2855	0.1875	-2.2041
16	19.03	-0.00	3.5957	-7.6266	0.0018	0.0340	0.0252	0.4688	0.2958	0.1730	-2.1218
17	20.04	-0.00	3.7706	-7.6927	0.0024	0.0178	0.0196	0.4815	0.2916	0.1899	-2.0402
18	21.08	0.00	3.9678	-7.6825	0.0279	-0.0771	-0.0138	0.4792	0.3131	0.1661	-1.9265
19	22.12	0.00	4.1186	-7.3832	0.0731	-0.2019	-0.0349	0.4934	0.3266	0.1667	-1.7927
20	23.18	0.01	4.2267	-6.8970	0.1295	-0.3442	-0.0490	0.5190	0.3415	0.1775	-1.6318
21	23.18	0.01	4.2481	-7.0255	0.1428	-0.4296	-0.0550	0.5128	0.3512	0.1616	-1.6538
22	24.25	-0.00	4.3743	-6.4123	0.0559	-0.0579	0.0307	0.5625	0.3667	0.1958	-1.4659
23	25.31	-0.00	4.6512	-6.3566	0.0753	-0.0357	0.0532	0.5716	0.4014	0.1701	-1.3663
24	26.35	-0.00	4.9345	-6.2412	0.1031	-0.1122	0.0828	0.5764	0.4284	0.1480	-1.2648
25	26.35	-0.00	4.9705	-6.2840	0.0979	-0.0874	0.0873	0.5748	0.4372	0.1376	-1.2642
26	27.45	0.00	5.2575	-6.0267	0.1499	-0.2037	0.0895	0.5738	0.4577	0.1161	-1.1463
27	27.44	0.00	5.3136	-6.0752	0.1459	-0.1954	0.0924	0.5749	0.4626	0.1123	-1.1433
28	28.52	0.00	5.6990	-5.9319	0.1591	-0.2263	0.0817	0.5686	0.4621	0.1064	-1.0409
29	29.58	0.00	6.0482	-5.9228	0.1819	-0.3087	0.0871	0.5616	0.4755	0.0861	-0.9703
30	30.65	0.00	6.4095	-5.8826	0.1441	-0.2191	0.0557	0.5525	0.4799	0.0726	-0.9178
31	20.05	-0.00	3.9365	-8.0084	0.0015	0.0206	0.0208	0.5052	0.3920	0.1132	-2.0344
32	20.04	-0.00	3.8429	-7.8303	-0.0064	0.0437	0.0292	0.4806	0.3717	0.1089	-2.0376
33	9.90	-0.00	2.0576	-5.6720	-0.0215	0.0593	0.0226	0.4215	0.2719	0.1496	-2.7563
34	-0.01	-0.00	0.0541	-0.2682	-0.0380	0.1297	0.0211	0.3987	0.1778	0.2209	-4.9623

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	34	1.05	2.3	0.0	B4W0F13	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	ACP
1	-0.01	-0.01	0.0276	-0.2066	-0.0475	0.1631	0.0189	0.5442	0.1533	0.3909	-7.5104
2	-0.01	-0.01	0.0237	-0.1827	-0.0462	0.1611	0.0191	0.5471	0.1804	0.3667	-7.7217
3	-0.01	-0.01	0.0211	-0.1767	-0.0455	0.1605	0.0173	0.5477	0.2068	0.3408	-8.3718
4	-0.01	-0.01	0.0297	-0.1889	-0.0464	0.1596	0.0187	0.5487	0.2085	0.3402	-6.3588
5	1.98	-0.01	0.3908	-1.1216	-0.0364	0.1338	0.0188	0.5475	0.2024	0.3451	-2.8697
6	1.98	-0.01	0.4051	-1.1775	-0.0405	0.1471	0.0205	0.5413	0.2091	0.3322	-2.9065
7	3.96	-0.01	0.8148	-2.3016	-0.0334	0.1309	0.0194	0.5280	0.2162	0.3118	-2.8248
8	5.95	-0.01	1.2330	-3.4652	-0.0293	0.1227	0.0169	0.5257	0.2218	0.3039	-2.8104
9	5.95	-0.01	1.2249	-3.4314	-0.0196	0.1118	0.0182	0.5408	0.2151	0.3258	-2.8814
10	7.91	-0.00	1.6516	-4.5717	-0.0294	0.1023	0.0185	0.5529	0.2281	0.3247	-2.7681
11	7.91	-0.00	1.6388	-4.5485	-0.0325	0.1056	0.0185	0.5507	0.2311	0.3197	-2.7755
12	9.91	-0.00	2.0462	-5.5031	-0.0277	0.0818	0.0199	0.5778	0.2398	0.3380	-2.6894
13	11.91	0.00	2.4528	-6.3718	-0.0252	0.0649	0.0274	0.5854	0.2483	0.3371	-2.5977
14	13.92	0.00	2.8567	-7.1844	-0.0215	0.0504	0.0272	0.5941	0.2586	0.3355	-2.5045
15	15.96	-0.00	3.2212	-7.5486	-0.0106	0.0423	0.0252	0.5900	0.2673	0.3228	-2.3434
16	16.97	-0.00	3.4167	-7.7508	-0.0043	0.0305	0.0231	0.6008	0.2740	0.3268	-2.2665
17	18.00	-0.00	3.6230	-7.9569	0.0009	0.0281	0.0273	0.6039	0.2813	0.3226	-2.1962
18	19.02	-0.00	3.8377	-8.1334	0.0081	0.0101	0.0253	0.6042	0.2944	0.3099	-2.1193
19	20.05	-0.00	4.0705	-8.2832	0.0113	0.0021	0.0278	0.5966	0.3045	0.2920	-2.0349
20	21.09	-0.00	4.3332	-8.3880	0.0137	-0.0004	0.0271	0.5843	0.3125	0.2718	-1.9357
21	22.15	-0.00	4.6168	-8.4177	0.0192	-0.0159	0.0169	0.5731	0.3148	0.2583	-1.8233
22	23.18	-0.00	4.8806	-8.3542	0.0330	-0.0411	0.0127	0.5670	0.3153	0.2517	-1.7117
23	24.23	-0.00	5.1633	-8.2758	0.0343	-0.0240	0.0179	0.5687	0.3270	0.2417	-1.6028
24	25.30	0.00	5.4763	-8.2534	0.0779	-0.1270	0.0376	0.5679	0.3400	0.2279	-1.5072
25	26.39	0.01	5.8025	-8.1636	0.1674	-0.3526	0.0772	0.5604	0.3536	0.2068	-1.4069
26	26.37	0.01	5.7988	-8.1734	0.1566	-0.3351	0.0742	0.5618	0.3583	0.2035	-1.4095
27	27.44	0.01	6.1533	-8.0673	0.1755	-0.3888	0.0837	0.5603	0.3663	0.1940	-1.3111
28	28.50	0.01	6.4547	-7.9347	0.1891	-0.4232	0.0879	0.5538	0.3784	0.1755	-1.2293
29	29.56	0.01	6.7622	-7.8565	0.1625	-0.3566	0.0697	0.5565	0.3812	0.1753	-1.1618
30	30.63	0.00	7.0083	-7.6740	0.1282	-0.2334	0.0506	0.5531	0.3887	0.1644	-1.0957
31	20.05	0.00	4.0447	-8.2318	0.0119	-0.0061	0.0309	0.5984	0.3882	0.2102	-2.0352
32	9.91	-0.00	2.0360	-5.5073	-0.0268	0.0852	0.0230	0.5744	0.3081	0.2664	-2.7050
33	-0.01	-0.01	0.0275	-0.2066	-0.0459	0.1635	0.0202	0.5513	0.2503	0.3011	-7.5185

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	35	1.10	2.3	0.0	B4W0F13	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-0.01	-0.01	0.0222	-0.1498	-0.0486	0.1810	0.0215	0.5783	0.2076	0.3707	-6.7339
2	1.99	-0.01	0.4085	-1.1733	-0.0549	0.2169	0.0222	0.5737	0.1986	0.3751	-2.8721
3	1.98	-0.01	0.3903	-1.0968	-0.0420	0.1718	0.0218	0.5705	0.2211	0.3494	-2.8101
4	3.96	-0.01	0.8122	-2.2903	-0.0475	0.1959	0.0225	0.5646	0.2047	0.3598	-2.8200
5	3.96	-0.01	0.7812	-2.1523	-0.0421	0.1637	0.0221	0.5616	0.2260	0.3355	-2.7551
6	5.96	-0.01	1.1946	-3.2535	-0.0327	0.1404	0.0208	0.5641	0.2256	0.3385	-2.7235
7	7.94	-0.00	1.5956	-4.2900	-0.0328	0.1761	0.0224	0.5767	0.2291	0.3476	-2.6887
8	9.92	-0.00	1.9994	-5.2409	-0.0312	0.1137	0.0240	0.5886	0.2350	0.3536	-2.6206
9	11.94	-0.00	2.3973	-6.0565	-0.0275	0.0969	0.0253	0.5941	0.2400	0.3541	-2.5265
10	13.95	-0.00	2.8061	-6.7962	-0.0239	0.0869	0.0264	0.6026	0.2445	0.3582	-2.4219
11	15.95	-0.00	3.2460	-7.5379	-0.0110	0.0617	0.0260	0.6080	0.2513	0.3567	-2.3222
12	16.97	-0.00	3.4744	-7.8172	-0.0066	0.0620	0.0228	0.6100	0.2591	0.3509	-2.2490
13	18.00	-0.00	3.5975	-7.6780	-0.0036	0.0655	0.0282	0.5998	0.2684	0.3313	-2.1343
14	19.04	-0.00	3.8300	-7.8459	0.0017	0.0451	0.0307	0.5960	0.2721	0.3239	-2.0485
15	20.08	-0.00	4.0854	-8.0065	0.0101	0.0483	0.0241	0.5914	0.2628	0.3087	-1.9598
16	21.11	-0.00	4.3597	-8.1497	0.0136	0.0441	0.0220	0.5843	0.2897	0.2946	-1.8693
17	22.15	-0.00	4.6321	-8.2786	-0.0048	0.0685	0.0274	0.5785	0.3022	0.2763	-1.7872
18	22.17	-0.01	4.6630	-8.1830	0.0103	0.0779	0.0139	0.5758	0.2920	0.2838	-1.7549
19	23.21	-0.01	4.9645	-8.2786	0.0241	0.0455	0.0144	0.5696	0.2998	0.2700	-1.6676
20	24.26	-0.01	5.2591	-8.3097	0.0287	0.0475	0.0209	0.5643	0.3065	0.2577	-1.5801
21	25.33	-0.00	5.6016	-8.2770	0.0468	-0.0147	0.0208	0.5560	0.3037	0.2523	-1.4776
22	26.40	-0.00	6.0067	-8.3769	0.1034	-0.1510	0.0391	0.5489	0.3076	0.2412	-1.3946
23	26.39	-0.00	5.9777	-8.3645	0.1030	-0.1526	0.0421	0.5512	0.3311	0.2201	-1.3993
24	26.39	-0.00	5.9629	-8.3601	0.1086	-0.1589	0.0446	0.5530	0.3499	0.2031	-1.4054
25	27.46	0.00	6.3555	-8.4678	0.1316	-0.2403	0.0599	0.5470	0.3530	0.1939	-1.3324
26	28.53	0.00	6.6795	-8.4472	0.1701	-0.3052	0.0723	0.5394	0.3514	0.1880	-1.2646
27	29.59	0.00	6.9781	-8.4186	0.1579	-0.2837	0.0370	0.5386	0.3525	0.1860	-1.2064
28	30.64	-0.00	7.1999	-8.2249	0.1166	-0.1692	0.0172	0.5425	0.3573	0.1852	-1.1430
29	20.08	-0.00	4.1014	-7.9645	0.0104	0.0515	0.0284	0.5967	0.3405	0.2562	-1.9468
30	9.92	-0.00	2.0005	-5.2495	-0.0308	0.1214	0.0239	0.5869	0.2896	0.2974	-2.6241
31	-0.01	-0.01	0.0282	-0.1693	-0.0537	0.1993	0.0230	0.5820	0.2189	0.3631	-6.4527

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RE10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	3A	1.26	2.3	0.0	B4=0F13	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-0.00	-0.00	-0.0009	-0.0480	-0.0284	0.0959	0.0227	0.5696	0.1793	0.3901	50.8254
2	1.99	-0.00	0.3866	-1.0792	-0.0214	0.0771	0.0244	0.5607	0.1777	0.3830	-2.7915
3	3.95	-0.00	0.7644	-2.0614	-0.0170	0.0633	0.0261	0.5519	0.1852	0.3668	-2.6969
4	5.95	-0.00	1.1432	-3.0714	-0.0121	0.0442	0.0248	0.5620	0.1909	0.3711	-2.6485
5	7.95	-0.00	1.5409	-3.9672	-0.0075	0.0311	0.0234	0.5794	0.1955	0.3839	-2.5746
6	9.95	-0.00	1.9365	-4.8015	-0.0039	0.0253	0.0219	0.5936	0.2023	0.3912	-2.4795
7	11.96	-0.00	2.3234	-5.5046	0.0015	0.0159	0.0216	0.6015	0.2085	0.3930	-2.3692
8	13.99	-0.00	2.7149	-6.1098	0.0117	0.0004	0.0183	0.6049	0.2157	0.3892	-2.2463
9	16.01	-0.00	3.1353	-6.6346	0.0101	0.0013	0.0249	0.6064	0.2236	0.3828	-2.1161
10	17.03	-0.00	3.3742	-6.8763	0.0114	-0.0006	0.0245	0.6049	0.2299	0.3751	-2.0355
11	18.08	-0.00	3.6361	-7.0511	0.0099	0.0021	0.0254	0.6011	0.2362	0.3649	-1.9392
12	19.14	-0.00	3.8890	-7.0253	0.0100	0.0141	0.0405	0.5914	0.2418	0.3495	-1.8065
13	20.17	-0.00	4.1737	-7.1385	0.0144	0.0121	0.0383	0.5815	0.2470	0.3345	-1.7103
14	21.22	-0.00	4.4818	-7.2254	0.0133	0.0159	0.0374	0.5761	0.2547	0.3214	-1.6122
15	22.27	-0.00	4.7878	-7.3230	0.0220	0.0171	0.0396	0.5697	0.2607	0.3090	-1.5295
16	23.33	-0.00	5.0963	-7.3584	0.0357	-0.0072	0.0355	0.5630	0.2639	0.2991	-1.4435
17	24.40	-0.00	5.4256	-7.3787	0.0419	-0.0129	0.0325	0.5576	0.2643	0.2933	-1.3599
18	25.46	-0.00	5.7572	-7.4033	0.0560	-0.0479	0.0336	0.5551	0.2676	0.2875	-1.2859
19	26.51	0.00	6.0839	-7.4167	0.0998	-0.1562	0.0441	0.5565	0.2754	0.2791	-1.2191
20	27.56	0.00	6.4296	-7.4647	0.1564	-0.2822	0.0604	0.5573	0.2867	0.2707	-1.1609
21	28.63	0.00	6.7586	-7.5071	0.1511	-0.2691	0.0460	0.5564	0.2947	0.2617	-1.1111
22	29.69	0.00	7.0834	-7.5856	0.2012	-0.3989	0.0188	0.5568	0.3039	0.2509	-1.0709
23	30.74	0.00	7.4445	-7.7239	0.2093	-0.4434	0.0269	0.5529	0.3162	0.2367	-1.0375
24	20.17	-0.00	4.1722	-7.0926	0.0157	0.0093	0.0394	0.5891	0.3087	0.2804	-1.7008
25	20.17	-0.00	4.1679	-7.1161	0.0184	-0.0011	0.0404	0.5870	0.2814	0.3056	-1.7074
26	9.95	-0.00	1.9362	-4.8200	-0.0037	0.0299	0.0219	0.5927	0.2535	0.3392	-2.4894
27	-0.00	-0.00	-0.0009	-0.0512	-0.0272	0.0918	0.0253	0.5700	0.2032	0.3667	58.2523

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RE/10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	37	1.30	2.3	0.0	B4#0F13	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-0.00	-0.00	-0.0753	0.0068	-0.0251	0.0034	0.0248	0.5350	0.1964	0.3366	-1.0518
2	1.99	-0.00	0.3232	-0.8041	-0.0246	0.0897	0.0249	0.5294	0.1993	0.3301	-2.4881
3	3.97	-0.00	0.6694	-1.6823	-0.0209	0.0908	0.0279	0.5225	0.1978	0.3248	-2.4403
4	5.97	-0.00	1.0492	-2.5469	-0.0175	0.0843	0.0266	0.5333	0.1946	0.3387	-2.4274
5	7.98	-0.00	1.4213	-3.3686	-0.0160	0.0866	0.0254	0.5476	0.1937	0.3539	-2.3701
6	9.99	-0.00	1.8113	-4.1285	-0.0118	0.0794	0.0241	0.5611	0.1938	0.3673	-2.2793
7	12.00	-0.00	2.1995	-4.7766	-0.0068	0.0665	0.0224	0.5713	0.1979	0.3734	-2.1717
8	14.03	-0.00	2.5874	-5.2919	0.0069	0.0330	0.0203	0.5759	0.2031	0.3728	-2.0453
9	16.08	-0.00	3.0351	-5.7480	0.0173	0.0103	0.0220	0.5777	0.2153	0.3624	-1.8938
10	17.12	-0.00	3.2926	-5.9372	0.0111	0.0179	0.0283	0.5764	0.2223	0.3541	-1.8032
11	18.15	-0.00	3.5721	-6.0949	0.0157	0.0089	0.0289	0.5749	0.2278	0.3471	-1.7063
12	19.20	-0.00	3.8664	-6.2246	0.0212	0.0040	0.0309	0.5741	0.2321	0.3421	-1.6099
13	20.25	-0.00	4.1626	-6.3163	0.0275	-0.0068	0.0302	0.5729	0.2367	0.3363	-1.5173
14	21.29	-0.00	4.4492	-6.3394	0.0330	-0.0124	0.0235	0.5670	0.2369	0.3301	-1.4248
15	22.34	-0.00	4.7619	-6.3964	0.0409	-0.0277	0.0235	0.5651	0.2405	0.3246	-1.3437
16	23.41	-0.00	5.0701	-6.4346	0.0390	-0.0254	0.0236	0.5590	0.2430	0.3160	-1.2691
17	24.46	-0.00	5.3897	-6.4610	0.0423	-0.0271	0.0263	0.5578	0.2503	0.3075	-1.2025
18	25.53	-0.00	5.7002	-6.4780	0.0406	-0.0180	0.0218	0.5528	0.2543	0.2985	-1.1365
19	26.60	-0.00	6.0417	-6.5194	0.0450	-0.0127	0.0273	0.5559	0.2612	0.2947	-1.0791
20	27.65	-0.00	6.4042	-6.6848	0.0630	-0.0079	0.0408	0.5572	0.2688	0.2884	-1.0430
21	28.70	-0.00	6.7816	-6.9154	0.0708	-0.0052	0.0369	0.5598	0.2770	0.2828	-1.0197
22	29.76	-0.01	7.1407	-7.1161	0.0678	-0.0469	0.0233	0.5628	0.2855	0.2773	-0.9966
23	30.82	-0.00	7.5030	-7.3411	0.0935	-0.1206	0.0256	0.5629	0.2933	0.2695	-0.9784
24	20.25	-0.00	4.1515	-6.2315	0.0293	-0.0141	0.0313	0.5694	0.2965	0.2729	-1.5058
25	20.25	-0.00	4.1420	-6.2633	0.0313	-0.0223	0.0322	0.5703	0.2834	0.2869	-1.5120
26	9.98	-0.00	1.8135	-4.1276	-0.0097	0.0741	0.0225	0.5588	0.2418	0.3170	-2.2759
27	-0.00	-0.00	-0.0132	0.0221	-0.0285	0.0911	0.0259	0.5397	0.2190	0.3207	-1.6791

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RE/0-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	42	0.80	2.3	0.0	B4=0F16	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	0.00	0.00	0.0101	-0.0104	-0.0012	-0.0048	-0.0042	0.2363	0.0942	0.1421	-1.0272
2	2.01	0.00	0.2885	-0.5829	0.0020	-0.0184	-0.0040	0.2439	0.0992	0.1448	-2.0202
3	4.00	0.00	0.6159	-1.3514	0.0046	-0.0278	-0.0062	0.2542	0.1161	0.1381	-2.1964
4	4.00	0.00	0.6169	-1.3670	0.0047	-0.0234	-0.0061	0.2496	0.1176	0.1320	-2.2157
5	5.99	0.00	0.9731	-2.2412	0.0127	-0.0452	-0.0043	0.2741	0.1171	0.1570	-2.3032
6	7.99	0.00	1.3367	-3.1764	0.0072	-0.0388	0.0014	0.2937	0.1261	0.1676	-2.3763
7	10.00	-0.00	1.5294	-3.3528	-0.0142	0.0435	0.0305	0.3289	0.1389	0.1900	-2.1921
8	12.02	0.00	1.7577	-3.5805	0.0001	-0.0386	0.0076	0.3588	0.1654	0.1934	-2.0378
9	14.04	0.00	2.0438	-3.9375	0.0014	-0.0420	0.0125	0.3783	0.1869	0.1914	-1.9265
10	14.06	0.00	2.3244	-4.2059	0.0086	-0.0217	0.0069	0.3901	0.2248	0.1653	-1.8094
11	17.08	0.00	2.4454	-4.2630	0.0022	-0.0048	0.0084	0.3941	0.2339	0.1603	-1.7433
12	18.10	0.00	2.6181	-4.4112	0.0064	-0.0266	0.0024	0.4130	0.2683	0.1447	-1.6849
13	19.11	0.00	2.7326	-4.3759	0.0459	-0.1373	-0.0155	0.4280	0.3154	0.1125	-1.6014
14	20.13	0.00	2.8405	-4.3025	0.0714	-0.2451	-0.0318	0.4434	0.3336	0.1098	-1.5147
15	21.16	0.00	2.9838	-4.2601	0.0069	-0.0344	-0.0051	0.4551	0.3446	0.1305	-1.4278
16	22.16	-0.01	3.1058	-4.2508	-0.0318	0.2003	0.0201	0.4986	0.3646	0.1340	-1.3687
17	22.18	-0.01	3.1365	-4.3164	-0.0387	0.2463	0.0277	0.5018	0.3817	0.1201	-1.3760
18	23.20	-0.01	3.3051	-4.4057	-0.0272	0.2168	0.0232	0.5119	0.4004	0.1115	-1.3338
19	24.23	-0.01	3.4960	-4.5417	-0.0019	0.1345	0.0148	0.5197	0.4151	0.1046	-1.2991
20	25.24	-0.01	3.6873	-4.6697	0.0240	0.0633	0.0098	0.5223	0.4190	0.1033	-1.2664
21	26.26	-0.01	3.8959	-4.8474	0.1563	-0.1901	0.0077	0.5121	0.4326	0.0794	-1.2442
22	27.28	-0.00	4.1253	-5.0512	0.2569	-0.4478	0.0218	0.5073	0.4576	0.0497	-1.2244
23	28.30	-0.00	4.3500	-5.2746	0.4109	-0.7859	0.0402	0.4965	0.4543	0.0422	-1.2124
24	29.32	0.00	4.6120	-5.5080	0.4401	-0.8763	0.0388	0.4981	0.4646	0.0335	-1.1943
25	30.34	0.01	4.8515	-5.7610	0.6355	-1.3390	0.1067	0.4843	0.4764	0.0079	-1.1875
26	20.13	0.00	2.8616	-4.3682	0.0593	-0.1719	-0.0108	0.4580	0.4223	0.0357	-1.5265
27	9.99	-0.00	1.5384	-3.4357	-0.0116	0.0372	0.0235	0.3229	0.2409	0.0819	-2.2333
28	-0.00	0.00	0.0315	-0.1388	-0.0063	0.0136	-0.0076	0.2392	0.1189	0.1203	-4.4034

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	43	0.85	2.3	0.0	B4&0F16	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	ACP
1	-0.00	0.00	0.0178	-0.0016	-0.0046	-0.0001	-0.0093	0.2499	0.1140	0.1359	-4.5701
2	2.00	0.00	0.3023	-0.0661	-0.0002	-0.0141	-0.0112	0.2520	0.1082	0.1437	-2.2034
3	3.99	0.00	0.6356	-1.4736	0.0015	-0.0208	-0.0093	0.2565	0.1086	0.1479	-2.3184
4	5.99	0.00	0.9866	-2.3489	0.0093	-0.0420	-0.0057	0.2673	0.1163	0.1510	-2.3888
5	7.98	0.00	1.3289	-3.1720	0.0146	-0.0646	-0.0006	0.2989	0.1246	0.1743	-2.3870
6	9.99	0.00	1.6385	-3.3975	-0.0133	0.0267	0.0261	0.3415	0.1414	0.2001	-2.2083
7	12.01	0.00	1.7776	-3.6826	0.0047	-0.0528	0.0089	0.3737	0.1593	0.2144	-2.0718
8	14.03	0.00	2.1004	-4.1611	0.0106	-0.0826	0.0103	0.4014	0.1939	0.2075	-1.9811
9	16.06	0.00	2.3817	-4.4413	0.0172	-0.0817	0.0062	0.4177	0.2271	0.1906	-1.8647
10	17.07	0.00	2.5204	-4.5366	0.0197	-0.0823	0.0025	0.4223	0.2716	0.1506	-1.7999
11	18.09	0.00	2.6646	-4.6143	0.0365	-0.1208	-0.0072	0.4348	0.2863	0.1486	-1.7317
12	19.11	0.01	2.7834	-4.5846	0.0672	-0.2518	-0.0283	0.4516	0.3107	0.1409	-1.6471
13	20.14	0.01	2.8966	-4.5203	0.0789	-0.2815	-0.0291	0.4685	0.3309	0.1376	-1.5605
14	21.17	-0.00	3.0270	-4.4200	0.0135	-0.0016	0.0078	0.5021	0.3348	0.1673	-1.4624
15	22.19	-0.01	3.1685	-4.4673	-0.0171	0.1356	0.0224	0.5196	0.3718	0.1478	-1.4011
16	23.20	-0.01	3.3852	-4.5956	-0.0196	0.1512	0.0270	0.5310	0.3799	0.1511	-1.3575
17	24.22	-0.01	3.5840	-4.7431	-0.0018	0.1167	0.0244	0.5355	0.4004	0.1351	-1.3234
18	25.24	-0.01	3.7878	-4.8882	0.0472	0.0141	0.0144	0.5318	0.4212	0.1105	-1.2905
19	26.28	-0.01	3.9934	-5.0449	0.1452	-0.1872	0.0142	0.5228	0.4363	0.0865	-1.2632
20	27.30	-0.00	4.2428	-5.2753	0.2531	-0.4391	0.0257	0.5163	0.4518	0.0644	-1.2434
21	28.33	-0.00	4.4820	-5.5220	0.4192	-0.8021	0.0450	0.5076	0.4518	0.0558	-1.2328
22	28.31	-0.00	4.4687	-5.5059	0.4287	-0.8061	0.0457	0.5078	0.4493	0.0585	-1.2321
23	29.33	0.00	4.7251	-5.7140	0.4111	-0.8041	0.0550	0.5062	0.4876	0.0185	-1.2103
24	30.37	0.01	5.0351	-5.9477	0.4099	-0.8396	0.0835	0.5035	0.4887	0.0148	-1.1812
25	20.13	0.01	2.9015	-4.5192	0.0764	-0.3053	-0.0242	0.4725	0.4472	0.0253	-1.5575
26	9.09	0.00	1.5414	-3.4785	-0.0106	0.0263	0.0244	0.3282	0.2477	0.0805	-2.2567
27	-0.01	0.00	0.0305	-0.1507	-0.0067	0.0090	-0.0073	0.2422	0.1330	0.1092	-4.9407

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	44	0.92	2.3	0.0	84 OF 16	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-0.00	0.00	0.0191	-0.1036	-0.0076	0.0085	-0.0070	0.2571	0.0796	0.1775	-5.4270
2	2.01	0.00	0.3076	-0.6877	-0.0022	-0.0134	-0.0069	0.2594	0.0987	0.1607	-2.2382
3	3.99	0.00	0.6358	-1.5176	0.0064	-0.0292	-0.0038	0.2608	0.1092	0.1516	-2.3868
4	5.96	-0.00	1.0341	-2.5546	-0.0130	0.0617	0.0055	0.2876	0.1016	0.1860	-2.4584
5	7.98	-0.00	1.3117	-3.0771	-0.0125	0.0478	0.0135	0.3159	0.1348	0.1811	-2.3459
6	10.00	0.01	1.5790	-3.5358	0.0205	-0.1048	0.0002	0.3569	0.1585	0.1984	-2.2393
7	12.02	0.00	1.8642	-3.8461	0.0018	-0.0406	0.0135	0.4033	0.1747	0.2285	-2.1084
8	14.02	0.01	2.1820	-4.5029	0.0113	-0.0839	0.0178	0.4339	0.2177	0.2161	-2.0637
9	16.04	0.00	2.4991	-4.9048	0.0171	-0.0614	0.0095	0.4515	0.2651	0.1864	-1.9626
10	16.04	0.00	2.5169	-4.9479	0.0185	-0.0655	0.0062	0.4536	0.2842	0.1694	-1.9738
11	17.04	0.00	2.6841	-5.1731	0.0203	-0.0651	0.0059	0.4635	0.3026	0.1609	-1.9273
12	18.07	0.00	2.8449	-5.3124	0.0264	-0.0788	0.0022	0.4697	0.3274	0.1424	-1.8674
13	19.09	0.00	2.9917	-5.3745	0.0401	-0.1226	-0.0069	0.4760	0.3401	0.1359	-1.7965
14	20.11	0.01	3.1041	-5.2747	0.0899	-0.3750	-0.0432	0.4866	0.3608	0.1259	-1.6993
15	21.15	0.01	3.2781	-5.2744	0.0868	-0.3563	-0.0355	0.5039	0.3668	0.1371	-1.6091
16	21.14	0.01	3.2760	-5.3494	0.0910	-0.3966	-0.0421	0.5049	0.3593	0.1457	-1.6319
17	22.16	0.00	3.3800	-5.1102	0.0217	-0.0418	0.0150	0.5333	0.3805	0.1528	-1.5119
18	23.20	-0.00	3.5938	-5.2443	-0.0028	0.0648	0.0316	0.5478	0.3852	0.1626	-1.4593
19	24.24	-0.00	3.7822	-5.3056	0.0004	0.0862	0.0344	0.5486	0.4099	0.1387	-1.4028
20	25.26	-0.01	4.0149	-5.4243	0.0436	0.0123	0.0281	0.5477	0.4216	0.1261	-1.3494
21	26.29	-0.01	4.2791	-5.5149	0.1335	-0.1640	0.0344	0.5389	0.4426	0.0963	-1.2888
22	27.34	-0.00	4.5664	-5.5429	0.1855	-0.2902	0.0532	0.5273	0.4549	0.0724	-1.2139
23	28.40	-0.00	4.8928	-5.4767	0.1713	-0.2442	0.0549	0.5119	0.4593	0.0526	-1.1193
24	29.47	-0.00	5.2334	-5.4172	0.2101	-0.3393	0.0635	0.4982	0.4642	0.0340	-1.0351
25	29.45	-0.00	5.1915	-5.4181	0.2116	-0.3228	0.0626	0.5022	0.4848	0.0175	-1.0436
26	30.53	-0.00	5.5532	-5.2868	0.1230	-0.1343	0.0357	0.4898	0.5024	-0.0126	-0.9520
27	20.11	0.01	3.1212	-5.3443	0.0642	-0.3617	-0.0362	0.4960	0.4547	0.0413	-1.7123
28	9.99	-0.00	1.5475	-3.5148	0.0085	0.0171	0.0295	0.3418	0.3137	0.0281	-2.2713
29	-0.01	0.00	0.0357	-0.1681	-0.0085	0.0116	-0.0003	0.2526	0.1547	0.0980	-4.7033

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	45	0.64	2.3	0.0	B4WOF16	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-0.01	0.00	0.0235	-0.1321	-0.0074	0.0062	-0.0036	0.2689	0.1002	0.1687	-5.6193
2	1.99	0.00	0.3188	-0.7755	-0.0029	-0.0010	-0.0085	0.2679	0.1139	0.1539	-2.4322
3	3.98	0.00	0.6857	-1.7184	0.0027	-0.0147	-0.0067	0.2730	0.1219	0.1511	-2.5068
4	5.97	-0.00	1.0804	-2.7743	-0.0122	0.0496	-0.0009	0.3025	0.1234	0.1792	-2.5678
5	7.97	-0.01	1.3876	-3.4330	-0.0634	0.2488	0.0736	0.3635	0.1298	0.2137	-2.4741
6	10.00	0.00	1.5924	-3.8204	0.0087	-0.0555	-0.0138	0.3715	0.1444	0.2271	-2.2735
7	12.00	0.00	1.8486	-3.9656	-0.0065	-0.0247	0.0199	0.4080	0.1832	0.2248	-2.1452
8	14.01	0.01	2.2068	-4.0455	0.0064	-0.0742	0.0225	0.4454	0.2323	0.2131	-2.1049
9	16.03	0.01	2.5582	-5.1382	0.0020	-0.0731	0.0239	0.4629	0.2786	0.1843	-2.0085
10	16.03	0.00	2.5953	-5.2941	0.0008	-0.0480	0.0224	0.4669	0.3209	0.1460	-2.0399
11	17.04	0.00	2.7562	-5.4394	0.0068	-0.0614	0.0172	0.4710	0.3327	0.1383	-1.9735
12	18.06	0.00	2.9141	-5.5773	0.0094	-0.0661	0.0136	0.4774	0.3422	0.1351	-1.9139
13	19.06	0.00	3.0688	-5.6513	0.0187	-0.0725	0.0088	0.4815	0.3574	0.1240	-1.8415
14	20.10	0.00	3.2357	-5.7415	0.0269	-0.1117	-0.0087	0.4905	0.3623	0.1282	-1.7744
15	21.14	0.01	3.3879	-5.7077	0.0741	-0.3171	-0.0357	0.5048	0.3566	0.1481	-1.6847
16	22.17	0.01	3.5059	-5.7249	0.0710	-0.3392	-0.0333	0.5153	0.3771	0.1382	-1.6055
17	23.20	0.00	3.7158	-5.5866	0.0320	-0.0977	0.0105	0.5322	0.3892	0.1429	-1.5048
18	24.24	-0.00	3.9281	-5.5317	0.0025	0.0904	0.0420	0.5452	0.4021	0.1430	-1.4082
19	25.28	-0.00	4.1713	-5.5541	0.0497	0.0178	0.0486	0.5444	0.4143	0.1301	-1.3315
20	26.32	-0.00	4.4129	-5.5647	0.1370	-0.1695	0.0610	0.5339	0.4330	0.1009	-1.2618
21	27.37	-0.00	4.6728	-5.5227	0.1755	-0.2548	0.0622	0.5218	0.4534	0.0685	-1.1819
22	28.42	-0.00	5.0581	-5.4527	0.1744	-0.2690	0.0631	0.5175	0.4539	0.0636	-1.0788
23	29.50	0.00	5.4132	-5.3396	0.2297	-0.3813	0.0826	0.5059	0.4722	0.0337	-0.9864
24	30.57	-0.00	5.7542	-5.2033	0.1105	-0.1277	0.0418	0.4957	0.4835	0.0122	-0.9043
25	20.10	0.00	3.2061	-5.6759	0.0331	-0.1348	-0.0090	0.4882	0.4549	0.0333	-1.7703
26	9.48	0.00	1.6000	-3.7100	0.0055	-0.0477	-0.0137	0.3646	0.3212	0.0434	-2.3187
27	7.96	-0.01	1.4152	-3.6176	-0.0639	0.2742	0.0739	0.3363	0.2529	0.0834	-2.5562
28	-0.01	0.00	0.0241	-0.1703	-0.0097	0.0151	0.0046	0.2588	0.1748	0.0840	-7.0638

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	44	0.96	2.3	0.0	B4W0F16	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-0.01	0.00	0.0711	-0.1396	-0.0095	0.0150	-0.0036	0.2980	0.1072	0.1908	-6.6178
2	1.99	-0.00	0.3337	-0.8636	-0.0046	0.0203	-0.0017	0.2949	0.1143	0.1805	-2.5886
3	3.99	-0.00	0.7021	-1.8229	-0.0034	0.0129	-0.0095	0.3022	0.1238	0.1783	-2.5964
4	5.96	-0.00	1.1216	-2.9904	-0.0025	0.0111	-0.0043	0.3291	0.1317	0.1974	-2.6662
5	5.95	0.00	1.1186	-3.0055	-0.0014	-0.0003	-0.0044	0.3346	0.1332	0.2034	-2.6868
6	7.95	-0.01	1.4370	-3.7041	-0.0455	0.1859	0.0612	0.3686	0.1508	0.2178	-2.5777
7	9.97	-0.01	1.7198	-4.1772	-0.0847	0.3308	0.1241	0.4141	0.1561	0.2581	-2.4289
8	12.01	0.00	1.9243	-4.2384	0.0102	-0.0639	-0.0094	0.4239	0.1912	0.2327	-2.2026
9	14.02	0.01	2.2436	-4.7836	0.0016	-0.0500	0.0257	0.4572	0.2526	0.2047	-2.1321
10	16.02	0.00	2.6358	-5.4794	0.0008	-0.0310	0.0256	0.4861	0.3033	0.1828	-2.0788
11	17.02	0.00	2.8497	-5.7974	0.0021	-0.0208	0.0272	0.4995	0.3189	0.1806	-2.0344
12	18.06	0.00	3.0069	-5.9196	0.0046	-0.0271	0.0237	0.4971	0.3379	0.1592	-1.9687
13	19.07	-0.00	3.2092	-6.0888	0.0369	-0.0096	0.0205	0.5032	0.3401	0.1631	-1.8973
14	20.09	-0.00	3.3722	-6.1498	0.0384	-0.0021	0.0202	0.5095	0.3554	0.1541	-1.8237
15	21.14	-0.00	3.5772	-6.2093	0.0520	-0.0770	0.0172	0.5151	0.3535	0.1617	-1.7358
16	22.16	0.00	3.7313	-6.1075	0.0772	-0.1566	0.0046	0.5136	0.3660	0.1476	-1.6368
17	23.21	-0.00	3.9296	-5.9569	0.0802	-0.0941	0.0380	0.5299	0.3756	0.1543	-1.5159
18	24.24	-0.01	4.1359	-5.8147	0.0575	0.0715	0.0782	0.5463	0.3888	0.1575	-1.4059
19	25.30	-0.01	4.3487	-5.7066	0.0459	0.0003	0.0765	0.5637	0.4130	0.1307	-1.3123
20	26.35	-0.00	4.6565	-5.6734	0.1536	-0.1467	0.0928	0.5389	0.4246	0.1143	-1.2184
21	27.40	0.00	4.9149	-5.5834	0.1769	-0.2523	0.1034	0.5270	0.4435	0.0835	-1.1360
22	28.46	-0.00	5.3038	-5.4654	0.1133	-0.1105	0.0746	0.5289	0.4479	0.0811	-1.0305
23	29.54	-0.00	5.6178	-5.3579	0.1793	-0.2465	0.0865	0.5161	0.4699	0.0462	-0.9537
24	30.61	-0.00	5.9545	-5.2065	0.1218	-0.1562	0.0529	0.5047	0.4802	0.0245	-0.8744
25	20.10	-0.00	3.3682	-6.1185	0.0383	-0.0132	0.0216	0.5110	0.4231	0.0879	-1.8166
26	9.98	0.00	1.6205	-3.7968	0.0049	-0.0390	0.0043	0.3847	0.3365	0.0482	-2.3430
27	-0.01	0.00	0.0213	-0.1635	-0.0106	0.0164	0.0013	0.3059	0.1649	0.1411	-7.6695

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	47	0.96	2.3	0.0	B4=0F16	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-0.01	0.00	0.0186	-0.1627	-0.0116	0.0161	0.0075	0.3362	0.1176	0.2186	-7.6589
2	1.99	0.00	0.3336	-0.[illegible]29	-0.0090	0.0094	0.0012	0.3341	0.1255	0.2086	-2.5848
3	3.97	-0.00	0.7109	-1.[illegible]7[illegible]	-0.0031	0.0063	-0.0063	0.3453	0.1368	0.2086	-2.6374
4	5.94	0.00	1.1184	-3.0124	0.0052	-0.0252	0.0002	0.3697	0.1579	0.2118	-2.6923
5	7.94	0.00	1.5133	-4.0461	-0.0018	-0.0056	0.0148	0.4127	0.1667	0.2461	-2.6737
6	9.96	-0.01	1.7423	-4.3505	-0.0745	0.2947	0.1149	0.4445	0.1873	0.2572	-2.4978
7	11.99	0.00	1.9818	-4.[illegible]706	-0.0004	-0.0129	0.0215	0.4541	0.2140	0.2401	-2.2558
8	14.01	0.00	2.2862	-4.[illegible]42[illegible]	0.0059	-0.0256	0.0211	0.4832	0.2605	0.2227	-2.1400
9	16.03	0.00	2.7043	-5.[illegible]62[illegible]	0.0185	-0.0267	0.0194	0.5194	0.2925	0.2269	-2.0939
10	17.03	-0.00	2.9146	-5.[illegible]92[illegible]	0.0164	-0.0135	0.0242	0.5254	0.3214	0.2040	-2.0568
11	17.03	-0.00	2.9308	-6.[illegible]23[illegible]	0.0222	-0.0183	0.0224	0.5263	0.3192	0.2100	-2.0553
12	18.03	-0.00	3.1354	-6.2746	0.0277	-0.0138	0.0286	0.5379	0.3330	0.2049	-2.0012
13	19.06	-0.00	3.3317	-6.[illegible]52[illegible]	0.0384	-0.0279	0.0283	0.5318	0.3449	0.1870	-1.9367
14	20.09	-0.00	3.5465	-6.5867	0.0512	-0.0561	0.0290	0.5379	0.3439	0.1940	-1.8572
15	21.12	-0.00	3.7457	-6.[illegible]12[illegible]	0.0605	-0.0840	0.0266	0.5289	0.3521	0.1769	-1.7652
16	22.16	-0.00	3.9436	-6.[illegible]52[illegible]	0.0761	-0.1303	0.0223	0.5301	0.3620	0.1681	-1.6616
17	23.21	-0.00	4.1176	-6.3512	0.0951	-0.1218	0.0391	0.5213	0.3803	0.1411	-1.5425
18	24.28	-0.01	4.3763	-6.[illegible]05[illegible]	0.0631	0.0512	0.0899	0.5425	0.3857	0.1568	-1.4188
19	25.32	-0.01	4.[illegible]38[illegible]	-6.[illegible]46[illegible]	0.0692	0.1028	0.1282	0.5528	0.3960	0.1568	-1.3043
20	26.39	-0.00	4.9514	-5.9331	0.1275	-0.0349	0.1536	0.5512	0.4050	0.1462	-1.1983
21	27.45	-0.00	5.1777	-5.7159	0.1546	-0.1312	0.1324	0.5401	0.4279	0.1122	-1.1039
22	28.53	-0.01	5.6057	-5.5642	0.1006	-0.0207	0.0807	0.5442	0.4328	0.1115	-0.9926
23	28.53	-0.01	5.5088	-5.[illegible]48[illegible]	0.1027	-0.0367	0.0825	0.5442	0.4535	0.0907	-0.9928
24	29.60	-0.00	5.8802	-5.[illegible]60[illegible]	0.1673	-0.1900	0.0956	0.5339	0.4650	0.0689	-0.9287
25	30.67	-0.00	6.2404	-5.3723	0.1206	-0.1396	0.0668	0.5300	0.4789	0.0511	-0.8609
26	20.09	-0.00	3.5737	-6.[illegible]29[illegible]	0.0470	-0.0632	0.0367	0.5440	0.4373	0.1067	-1.8558
27	9.95	-0.01	1.7654	-4.[illegible]14[illegible]	-0.0730	0.3300	0.1139	0.4280	0.3385	0.0894	-2.5085
28	-0.01	0.00	0.0256	-0.1762	-0.0094	0.0126	0.0091	0.3412	0.1960	0.1451	-6.8722

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RE10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	4A	1.65	2.3	0.0	B4W0F16	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-0.01	-0.00	0.0000	-0.0859	-0.0146	0.0406	0.0071	0.4984	0.1786	0.3176	**********
2	1.99	0.00	0.3571	-0.9681	-0.0124	0.0214	0.0072	0.4786	0.1920	0.2867	-2.7109
3	3.97	0.00	0.7356	-1.9766	-0.0076	0.0174	0.0014	0.4908	0.1920	0.2988	-2.6869
4	5.96	0.00	1.1307	-3.0242	-0.0038	-0.0025	0.0061	0.5217	0.1942	0.3275	-2.6746
5	7.94	0.00	1.5204	-4.0350	0.0042	-0.0233	0.0093	0.5586	0.2034	0.3551	-2.6539
6	9.94	0.00	1.9265	-4.9798	0.0026	-0.0259	0.0171	0.5873	0.2173	0.3699	-2.5822
7	11.95	0.00	2.2961	-5.6977	-0.0006	-0.0084	0.0310	0.5832	0.2324	0.3508	-2.4815
8	13.99	-0.00	2.5661	-5.8284	-0.0374	0.1634	0.0836	0.6036	0.2313	0.3723	-2.2713
9	16.03	-0.00	2.7994	-5.7526	0.0102	-0.0049	0.0233	0.6169	0.2650	0.3518	-2.0549
10	17.05	0.00	3.0122	-6.0440	0.0178	-0.0707	0.0228	0.6298	0.2785	0.3512	-2.0065
11	18.07	-0.00	3.2432	-6.3446	0.0266	-0.0305	0.0257	0.6297	0.2959	0.3338	-1.9563
12	19.09	-0.00	3.4824	-6.5840	0.0396	-0.0553	0.0298	0.6319	0.3063	0.3256	-1.8906
13	20.11	0.00	3.7215	-6.7487	0.0556	-0.0913	0.0290	0.6273	0.3143	0.3130	-1.8134
14	21.15	0.00	3.9953	-6.8777	0.0665	-0.1153	0.0326	0.6217	0.3213	0.3004	-1.7214
15	22.19	0.00	4.2943	-7.0107	0.0798	-0.1443	0.0393	0.6156	0.3338	0.2818	-1.6326
16	23.23	0.00	4.5891	-7.0664	0.1001	-0.1923	0.0548	0.6096	0.3434	0.2661	-1.5398
17	24.29	0.01	4.8953	-7.0861	0.1165	-0.2412	0.0793	0.6016	0.3555	0.2461	-1.4479
18	25.35	0.01	5.2151	-7.0876	0.1336	-0.2723	0.0916	0.5975	0.3678	0.2297	-1.3598
19	26.41	0.01	5.4942	-6.9853	0.1745	-0.3410	0.1125	0.5879	0.3750	0.2130	-1.2705
20	27.46	0.01	5.8224	-6.9324	0.1949	-0.3883	0.1205	0.5839	0.3764	0.2075	-1.1907
21	28.55	0.01	6.1067	-6.7558	0.1341	-0.2283	0.1038	0.5770	0.4011	0.1759	-1.1063
22	29.62	0.00	6.3797	-6.6300	0.1080	-0.1644	0.0898	0.5725	0.4047	0.1679	-1.0392
23	30.67	0.00	6.7026	-6.5807	0.1091	-0.1531	0.0744	0.5734	0.4123	0.1611	-0.9818
24	20.11	0.00	3.7041	-6.7207	0.0575	-0.1013	0.0333	0.6313	0.3985	0.2328	-1.8124
25	9.93	0.00	1.9376	-5.0766	-0.0012	-0.0080	0.0174	0.5673	0.3202	0.2470	-2.6197
26	-0.01	0.00	-0.0019	-0.0931	-0.0166	0.0305	0.0084	0.5069	0.2370	0.2699	48.2001

ARNOLD ENGINEERING DEVELOPMENT CENTER (AEDC) PROPULSION WIND TUNNEL FACILITY (PWT) AERODYNAMIC WIND TUNNEL (4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	49	1.10	2.3	0.0	84W0F16	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-0.01	-0.00	-0.0027	-0.0651	-0.0244	0.0796	0.0101	0.5340	0.1859	0.3488	24.4487
2	1.99	-0.00	0.1432	-0.9111	-0.0171	0.0569	0.0072	0.5222	0.2101	0.3121	-2.6547
3	3.97	-0.00	0.7201	-1.8961	-0.0184	0.0473	0.0046	0.5295	0.2013	0.3283	-2.6329
4	5.96	-0.00	1.0974	-2.8644	-0.0078	0.0253	0.0090	0.5458	0.2194	0.3263	-2.6102
5	7.95	0.00	1.4756	-3.8028	-0.0057	0.0076	0.0135	0.5691	0.2274	0.3417	-2.5771
6	9.94	0.00	1.8674	-4.7148	-0.0015	0.0011	0.0165	0.5872	0.2332	0.3540	-2.5268
7	11.95	0.00	2.2556	-5.6569	0.0009	-0.0048	0.0239	0.6001	0.2277	0.3724	-2.4190
8	13.96	0.00	2.6116	-6.5633	0.0015	-0.0067	0.0251	0.6003	0.2355	0.3648	-2.2834
9	16.04	-0.00	2.9496	-6.5936	0.0067	0.0293	0.0241	0.6071	0.2453	0.3618	-2.0052
10	17.07	-0.00	2.9987	-6.8212	0.0150	0.0113	0.0206	0.6167	0.2585	0.3583	-1.9412
11	18.08	-0.00	3.2284	-6.1165	0.0215	0.0011	0.0188	0.6239	0.2761	0.3478	-1.8946
12	19.11	-0.00	3.4701	-6.3606	0.0301	-0.0097	0.0258	0.6246	0.2870	0.3376	-1.8338
13	20.13	-0.00	3.7282	-6.5444	0.0510	-0.0451	0.0781	0.6185	0.2965	0.3220	-1.7555
14	21.17	-0.00	4.0035	-6.6779	0.0545	-0.0564	0.0287	0.6130	0.3015	0.3115	-1.6680
15	22.20	-0.00	4.3007	-6.8419	0.0644	-0.0440	0.0339	0.6127	0.3079	0.3048	-1.5909
16	23.26	0.00	4.6112	-6.9184	0.0732	-0.1110	0.0431	0.6041	0.3135	0.2905	-1.4999
17	24.32	0.00	4.9408	-6.9907	0.1011	-0.1793	0.0653	0.5968	0.3217	0.2751	-1.4149
18	25.39	0.00	5.2821	-7.0065	0.1105	-0.1984	0.0694	0.5846	0.3245	0.2600	-1.3265
19	26.43	0.01	5.6230	-7.1016	0.1592	-0.2985	0.0823	0.5745	0.3371	0.2373	-1.2638
20	27.50	0.01	5.9612	-7.2081	0.1605	-0.2982	0.0811	0.5751	0.3526	0.2225	-1.2132
21	28.54	0.00	6.2799	-7.2625	0.1485	-0.2561	0.0815	0.5698	0.3573	0.2125	-1.1565
22	29.60	-0.00	6.5907	-7.2499	0.0930	-0.1220	0.0494	0.5680	0.3678	0.2002	-1.1000
23	30.66	-0.00	6.8670	-7.1630	0.0762	-0.0727	0.0408	0.5674	0.3804	0.1869	-1.0431
24	20.14	-0.00	3.7208	-6.4656	0.0446	-0.0460	0.0294	0.6211	0.3580	0.2631	-1.7377
25	9.94	0.00	1.8829	-4.8208	-0.0076	0.0202	0.0155	0.5737	0.3052	0.2684	-2.5603
26	-0.01	-0.00	-0.0023	-0.0877	-0.0214	0.0607	0.0115	0.5382	0.2295	0.3087	38.5093

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	50	1.20	2.3	0.0	B4W0F16	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-0.00	0.00	-0.0290	0.0424	-0.0063	-0.0048	0.0103	0.5331	0.1733	0.3597	-1.4651
2	1.99	0.00	0.3306	-0.4497	-0.0040	-0.0114	0.0077	0.5176	0.1889	0.3287	-2.5688
3	3.98	0.00	0.6993	-1.7702	0.0034	-0.0356	0.0091	0.5240	0.1860	0.3380	-2.5312
4	5.97	0.00	1.0581	-2.0668	0.0078	-0.0443	0.0134	0.5448	0.1892	0.3556	-2.5015
5	7.97	0.00	1.4125	-3.4320	0.0110	-0.0604	0.0105	0.5635	0.1931	0.3703	-2.4297
6	9.97	0.00	1.7867	-4.1917	0.0242	-0.0732	0.0118	0.5824	0.1990	0.3834	-2.3461
7	11.99	0.00	2.1684	-4.8689	0.0206	-0.0710	0.0174	0.5902	0.2073	0.3829	-2.2454
8	14.02	0.00	2.5333	-5.3316	0.0205	-0.0505	0.0273	0.5907	0.2085	0.3822	-2.1046
9	16.07	0.00	2.9226	-5.7012	0.0253	-0.0567	0.0223	0.5910	0.2114	0.3796	-1.9587
10	17.10	-0.00	3.0608	-5.5598	0.0008	0.0684	0.0835	0.5915	0.2175	0.3740	-1.8165
11	18.13	0.00	3.2620	-5.5788	0.0262	-0.0161	0.0576	0.5896	0.2224	0.3672	-1.7096
12	19.16	-0.00	3.4942	-5.5756	0.0440	-0.0667	0.0087	0.5866	0.2339	0.3527	-1.5957
13	20.21	-0.00	3.7865	-5.7623	0.0438	-0.0469	0.0111	0.5887	0.2452	0.3435	-1.5218
14	21.27	-0.00	4.0951	-5.9026	0.0497	-0.0672	0.0157	0.5869	0.2545	0.3324	-1.4414
15	22.33	-0.00	4.4116	-6.0443	0.0638	-0.0421	0.0187	0.5861	0.2664	0.3197	-1.3701
16	23.36	-0.00	4.7338	-6.1966	0.0778	-0.1243	0.0243	0.5876	0.2776	0.3100	-1.3086
17	23.36	-0.00	4.7208	-6.1521	0.0725	-0.1147	0.0213	0.5859	0.2780	0.3079	-1.3032
18	24.42	0.00	5.0645	-6.2687	0.0985	-0.1737	0.0309	0.5834	0.2851	0.2983	-1.2378
19	25.48	0.00	5.4037	-6.3556	0.1374	-0.2497	0.0462	0.5814	0.2935	0.2878	-1.1761
20	26.55	0.00	5.7870	-6.4990	0.1549	-0.3028	0.0499	0.5751	0.2994	0.2757	-1.1230
21	27.60	0.01	6.1491	-6.6592	0.1863	-0.3802	0.0595	0.5692	0.3052	0.2640	-1.0838
22	28.64	0.01	6.4594	-6.7570	0.1855	-0.3732	0.0583	0.5598	0.3191	0.2408	-1.0461
23	29.70	0.00	6.8047	-6.8195	0.1900	-0.3731	0.0511	0.5578	0.3171	0.2407	-1.0022
24	30.77	0.00	7.1684	-6.9543	0.1880	-0.3607	0.0485	0.5562	0.3231	0.2332	-0.9701
25	20.22	0.00	3.7835	-5.8755	0.0454	-0.0792	0.0176	0.5970	0.3200	0.2771	-1.5001
26	9.97	0.00	1.7965	-4.2659	0.0136	-0.0561	0.0148	0.5760	0.2682	0.3078	-2.3765
27	-0.00	0.00	-0.0266	0.0215	-0.0053	-0.0098	0.0145	0.5321	0.2034	0.3287	-0.8069

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RE10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	51	1.30	2.3	0.0	B4=0F16	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLN	CY	CLN	CLL	CA	CAB	CAF	XCP
1	0.00	0.00	-0.0342	0.0769	-0.0080	0.0034	0.0141	0.4968	0.1478	0.3289	-2.2506
2	2.00	0.00	0.2457	-0.7041	-0.0095	0.0164	0.0144	0.4856	0.1753	0.3103	-2.3812
3	3.99	0.00	0.6366	-1.5005	-0.0077	0.0107	0.0132	0.4905	0.1751	0.3153	-2.3569
4	6.00	0.00	0.9784	-2.2666	-0.0134	0.0066	0.0132	0.5071	0.1749	0.3322	-2.3167
5	7.99	0.00	1.3272	-2.9833	-0.0007	0.0010	0.0133	0.5283	0.1806	0.3477	-2.2478
6	10.01	0.00	1.6903	-3.6484	0.0053	-0.0158	0.0130	0.5474	0.1850	0.3625	-2.1585
7	12.02	0.00	2.0668	-4.2454	0.0123	-0.0268	0.0140	0.5628	0.1923	0.3704	-2.0541
8	14.07	0.00	2.4613	-4.7222	0.0230	-0.0404	0.0145	0.5722	0.2012	0.3710	-1.9186
9	16.12	0.00	2.8617	-5.0413	0.0326	-0.0713	0.0150	0.5691	0.2077	0.3614	-1.7616
10	17.14	0.00	3.0966	-5.1737	0.0300	-0.0636	0.0187	0.5665	0.2120	0.3545	-1.6708
11	18.18	0.00	3.3664	-5.2984	0.0296	-0.0569	0.0224	0.5646	0.2173	0.3473	-1.5737
12	19.23	0.00	3.6493	-5.4181	0.0360	-0.0683	0.0201	0.5599	0.2232	0.3367	-1.4841
13	20.27	0.00	3.9304	-5.5283	0.0503	-0.1023	0.0215	0.5561	0.2295	0.3266	-1.4060
14	20.29	0.00	3.9354	-5.4909	0.0474	-0.0975	0.0199	0.5542	0.2325	0.3217	-1.3953
15	21.33	0.00	4.1959	-5.4268	0.0491	-0.0719	0.0493	0.5537	0.2340	0.3197	-1.2938
16	22.38	0.00	4.4548	-5.4107	0.0708	-0.1395	0.0239	0.5555	0.2361	0.3194	-1.2146
17	23.44	0.00	4.7141	-5.3274	0.0769	-0.1525	0.0241	0.5558	0.2395	0.3163	-1.1578
18	24.48	0.00	5.0983	-5.6818	0.0957	-0.1748	0.0256	0.5565	0.2459	0.3106	-1.1144
19	25.55	0.00	5.4616	-5.8556	0.1030	-0.1960	0.0281	0.5566	0.2566	0.3000	-1.0721
20	26.60	0.00	5.8283	-6.0386	0.1254	-0.2468	0.0317	0.5562	0.2684	0.2878	-1.0361
21	27.67	0.00	6.2073	-6.2498	0.1235	-0.2499	0.0373	0.5559	0.2707	0.2851	-1.0069
22	28.72	-0.00	6.5877	-6.4786	0.1137	-0.1905	0.0314	0.5583	0.2766	0.2817	-0.9834
23	29.77	-0.00	6.9449	-6.6859	0.1115	-0.1852	0.0218	0.5599	0.2822	0.2776	-0.9627
24	30.82	-0.00	7.3027	-6.8930	0.1074	-0.1770	0.0193	0.5594	0.2885	0.2709	-0.9439
25	20.28	0.00	3.9291	-5.4214	0.0472	-0.1116	0.0237	0.5590	0.2700	0.2890	-1.3798
26	10.00	0.00	1.6922	-3.6619	0.0075	-0.0106	0.0144	0.5448	0.2380	0.3068	-2.1758
27	-0.00	0.00	-0.0341	0.0567	-0.0091	0.0030	0.0156	0.5002	0.2052	0.2951	-1.6486

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RE10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	57	0.80	2.3	0.0	B4#0F22	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-0.00	0.00	0.0101	-0.0280	-0.0099	0.0164	0.0033	0.2189	0.0965	0.1225	-2.7874
2	2.00	-0.00	0.1954	-0.2399	-0.0079	0.0169	0.0011	0.2192	0.0972	0.1220	-1.2273
3	4.03	-0.00	0.3942	-0.5066	-0.0058	0.0169	0.0026	0.2214	0.1015	0.1203	-1.2852
4	6.03	-0.00	0.6122	-0.8375	-0.0060	0.0240	0.0042	0.2289	0.1102	0.1188	-1.3688
5	8.03	-0.00	0.8530	-1.2196	-0.0085	0.0217	0.0040	0.2414	0.1180	0.1234	-1.4308
6	10.08	0.00	1.1157	-1.6134	-0.0068	0.0135	0.0054	0.2508	0.1262	0.1246	-1.4461
7	12.07	0.00	1.3824	-1.9781	-0.0114	0.0170	0.0104	0.2552	0.1308	0.1244	-1.4309
8	14.09	0.00	1.6681	-2.2983	-0.0185	0.0241	0.0099	0.2539	0.1508	0.1031	-1.3766
10	16.15	0.00	1.9188	-2.6542	-0.0109	0.0055	-0.0003	0.2506	0.1595	0.0911	-1.2798
11	17.14	-0.00	2.0466	-2.8954	-0.0206	0.0538	0.0069	0.2498	0.1599	0.0899	-1.2193
12	18.17	-0.00	2.2018	-2.8292	-0.0189	0.0528	0.0046	0.2505	0.1646	0.0858	-1.1941
13	19.17	-0.00	2.3643	-2.7567	-0.0150	0.0442	0.0023	0.2480	0.1772	0.0709	-1.1668
14	20.17	-0.00	2.5197	-2.8825	-0.0120	0.0413	0.0037	0.2461	0.1838	0.0623	-1.1440
15	21.20	-0.00	2.6820	-2.9789	-0.0103	0.0384	0.0031	0.2417	0.1903	0.0514	-1.1107
17	22.22	0.00	2.8295	-3.0562	0.0075	-0.0140	0.0056	0.2351	0.2047	0.0304	-1.0801
18	23.23	0.00	3.0151	-3.1338	0.0367	-0.0866	0.0062	0.2274	0.2148	0.0127	-1.0394
19	24.27	0.00	3.1675	-3.1452	0.0606	-0.1318	0.0177	0.2207	0.2205	0.0001	-0.9930
20	25.29	0.00	3.3306	-3.1261	0.0994	-0.2003	0.0452	0.2146	0.2267	-0.0121	-0.9386
21	26.32	0.00	3.5044	-3.1326	0.1087	-0.2156	0.0569	0.2104	0.2383	-0.0279	-0.8939
22	27.32	0.01	3.6747	-3.1352	0.2217	-0.4479	0.1047	0.2103	0.2474	-0.0372	-0.8532
23	28.39	0.02	3.8516	-3.1204	0.4866	-1.0529	0.1581	0.2193	0.2600	-0.0406	-0.8102
24	28.40	0.02	3.8654	-3.1350	0.5075	-1.0904	0.1664	0.2218	0.3064	-0.0846	-0.8110
25	29.40	0.02	4.0694	-3.2573	0.4511	-0.9966	0.1459	0.2012	0.3025	-0.1013	-0.8004
26	30.40	0.02	4.2888	-3.3745	0.5617	-1.2079	0.1569	0.1827	0.3007	-0.1180	-0.7868
27	20.18	0.00	2.4922	-2.8736	-0.0072	0.0166	0.0198	0.2345	0.1917	0.0423	-1.1531
28	10.34	0.00	1.0953	-1.6671	-0.0071	-0.0041	0.0234	0.2452	0.1545	0.0906	-1.5220
29	-0.01	0.06	0.0057	-0.0960	-0.0111	0.0026	0.0193	0.2240	0.1087	0.1152	-16.7928

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	SA	0.85	2.3	0.0	B4W0P22	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-0.01	0.00	0.0030	-0.0814	-0.0109	-0.0015	0.0205	0.2306	0.0751	0.1555	-26.7981
2	-0.00	0.00	0.0054	-0.0765	-0.0121	0.0003	0.0188	0.2301	0.0935	0.1366	-14.0755
3	2.01	0.00	0.1825	-0.2692	-0.0096	0.0011	0.0201	0.2317	0.1014	0.1303	-1.4754
4	4.03	0.00	0.3801	-0.5396	-0.0070	0.0030	0.0182	0.2346	0.1045	0.1301	-1.4194
5	6.04	0.00	0.6038	-0.8870	-0.0062	0.0032	0.0214	0.2414	0.1091	0.1323	-1.4691
6	8.04	0.00	0.8429	-1.2662	-0.0064	-0.0045	0.0246	0.2496	0.1213	0.1284	-1.5022
7	10.04	0.00	1.1071	-1.6766	-0.0075	-0.0069	0.0261	0.2595	0.1317	0.1278	-1.5162
8	12.07	0.00	1.3922	-2.1064	-0.0131	-0.0092	0.0325	0.2602	0.1412	0.1190	-1.4938
9	14.10	0.00	1.6704	-2.5816	-0.0187	0.0036	0.0339	0.2576	0.1532	0.1044	-1.4259
10	16.12	0.00	1.9294	-2.9466	-0.0146	-0.0036	0.0223	0.2484	0.1559	0.0926	-1.3199
11	17.16	0.00	2.0600	-3.1493	-0.0190	0.0359	0.0291	0.2484	0.1587	0.0897	-1.2569
12	18.18	0.00	2.2069	-3.3722	-0.0222	0.0356	0.0251	0.2484	0.1684	0.0799	-1.2233
13	19.17	0.00	2.3817	-3.6436	-0.0144	0.0263	0.0248	0.2480	0.1844	0.0636	-1.1939
15	20.18	0.00	2.5420	-3.8884	-0.0104	0.0279	0.0260	0.2465	0.2005	0.0450	-1.1599
16	21.20	0.00	2.7066	-4.0263	-0.0075	0.0237	0.0236	0.2430	0.2023	0.0407	-1.1180
17	22.22	0.00	2.8612	-3.0639	0.0121	-0.0319	0.0206	0.2372	0.2134	0.0238	-1.0708
18	23.26	0.00	3.0314	-3.0892	0.0437	-0.1066	0.0209	0.2344	0.2186	0.0158	-1.0191
19	24.27	0.00	3.1985	-3.0771	0.0598	-0.1399	0.0321	0.2283	0.2323	-0.0040	-0.9620
20	25.33	0.00	3.3642	-3.0460	0.0928	-0.1786	0.0554	0.2240	0.2439	-0.0199	-0.9054
21	26.36	0.00	3.5354	-3.0606	0.1137	-0.2213	0.0701	0.2180	0.2584	-0.0404	-0.8657
22	27.36	0.01	3.7343	-3.0898	0.1860	-0.3707	0.1112	0.2146	0.2613	-0.0467	-0.8274
23	28.41	0.02	3.9154	-3.1223	0.4584	-0.9905	0.1706	0.2181	0.2696	-0.0515	-0.7974
24	29.42	0.01	4.1711	-3.2626	0.4198	-0.8795	0.1433	0.1959	0.3008	-0.1050	-0.7773
25	30.47	0.01	4.4101	-3.2882	0.4535	-0.9342	0.1319	0.1750	0.3021	-0.1272	-0.7456
26	20.20	0.00	2.5301	-2.9213	-0.0117	0.0133	0.0361	0.2513	0.2497	0.0016	-1.1548
27	10.04	0.00	1.1106	-1.7427	-0.0098	-0.0060	0.0364	0.2536	0.1662	0.0874	-1.5691
28	-0.01	0.00	0.0008	-0.1077	-0.0144	0.0015	0.0327	0.2288	0.1130	0.1158	-136.9631

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST PART MACH RX10-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION
1 61 0.62 2.3 0.0 WINGOF22 0.0 0 0 0 0 UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-0.00	0.00	0.0165	-0.0484	-0.0033	-0.0092	0.0076	0.2494	0.1035	0.1459	-2.9347
2	2.02	0.00	0.1957	-0.2403	-0.0060	0.0057	0.0057	0.2480	0.1069	0.1411	-1.2278
3	4.03	0.00	0.4058	-0.5501	-0.0015	0.0017	0.0055	0.2535	0.1102	0.1433	-1.3556
4	6.05	0.00	0.6436	-0.9576	0.0034	-0.0071	0.0086	0.2659	0.1145	0.1514	-1.4878
5	8.04	0.00	0.9041	-1.4267	0.0040	-0.0137	0.0100	0.2786	0.1267	0.1519	-1.5781
6	10.06	0.00	1.1778	-1.8713	0.0104	-0.0322	0.0112	0.2863	0.1364	0.1498	-1.5888
7	12.06	0.00	1.4604	-2.2712	0.0065	-0.0277	0.0159	0.2848	0.1425	0.1423	-1.5546
8	14.09	0.00	1.7483	-2.5927	-0.0053	-0.0009	0.0188	0.2814	0.1449	0.1365	-1.4830
9	16.11	-0.00	2.0443	-2.8641	-0.0178	0.0532	0.0185	0.2805	0.1619	0.1186	-1.4018
10	17.16	0.00	2.1691	-2.8479	-0.0066	0.0095	0.0076	0.2788	0.1842	0.0946	-1.3129
11	18.18	0.00	2.3262	-2.9230	-0.0091	0.0248	0.0086	0.2878	0.1787	0.1091	-1.2566
12	19.19	-0.00	2.4756	-3.0161	-0.0112	0.0433	0.0084	0.2858	0.2244	0.0614	-1.2182
13	20.21	-0.00	2.6268	-3.0955	0.0074	-0.0056	0.0042	0.2792	0.2311	0.0481	-1.1740
14	21.23	-0.00	2.8041	-3.1140	-0.0080	0.0272	0.0003	0.2852	0.2310	0.0542	-1.1105
15	22.26	-0.00	2.9501	-3.0832	0.0015	-0.0076	-0.0075	0.2772	0.2417	0.0355	-1.0451
16	23.30	-0.00	3.1197	-3.0788	0.0191	-0.0403	-0.0102	0.2753	0.2485	0.0268	-0.9869
17	24.32	0.00	3.3142	-3.0295	0.0334	-0.0752	-0.0050	0.2710	0.2606	0.0104	-0.9141
18	25.35	-0.00	3.5002	-2.9776	0.0806	-0.1543	0.0099	0.2621	0.2806	-0.0185	-0.8507
19	26.40	0.00	3.6862	-2.9459	0.1168	-0.2249	0.0268	0.2526	0.2846	-0.0320	-0.8040
20	27.45	0.00	3.8731	-2.8247	0.1478	-0.2689	0.0312	0.2442	0.2924	-0.0482	-0.7109
22	29.58	-0.01	4.5567	-2.4319	0.2815	-0.4542	0.0378	0.2288	0.3148	-0.0860	-0.5337
23	30.65	-0.01	4.9069	-2.1439	0.1658	-0.2346	0.0103	0.2156	0.3192	-0.1036	-0.4369
25	10.06	0.00	1.1757	-1.9407	0.0071	-0.0240	0.0213	0.2793	0.1871	0.0923	-1.6506
28	-0.00	0.00	0.0073	-0.0551	-0.0057	-0.0098	0.0240	0.2459	0.1047	0.1413	-7.5479

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RE10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	62	0.98	2.3	0.0	B4=0F22	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-0.00	0.00	0.0045	-0.0340	-0.0065	0.0035	0.0232	0.3107	0.1188	0.1918	-8.4169
2	2.02	0.00	0.2056	-0.3038	-0.0045	-0.0024	0.0228	0.3097	0.1297	0.1800	-1.4752
3	4.01	0.00	0.4109	-0.6177	-0.0012	-0.0067	0.0243	0.3111	0.1267	0.1844	-1.5034
4	6.05	0.00	0.6514	-1.0078	-0.0019	-0.0033	0.0257	0.3195	0.1332	0.1863	-1.5472
5	8.04	0.00	0.9022	-1.4167	0.0020	-0.0084	0.0269	0.3419	0.1455	0.1964	-1.5703
6	10.05	0.00	1.1736	-1.8306	0.0038	-0.0160	0.0267	0.3499	0.1701	0.1797	-1.5595
7	10.05	0.00	1.1678	-1.8267	0.0049	-0.0120	0.0282	0.3493	0.1808	0.1685	-1.5669
8	12.09	0.00	1.4566	-2.1952	0.0001	-0.0132	0.0310	0.3509	0.1902	0.1606	-1.5069
9	14.11	0.00	1.7561	-2.5154	-0.0120	0.0159	0.0352	0.3565	0.2209	0.1356	-1.4324
10	16.15	0.00	2.0661	-2.7755	-0.0206	0.0463	0.0345	0.3582	0.2293	0.1289	-1.3433
11	17.16	0.00	2.2411	-2.9353	-0.0191	0.0514	0.0329	0.3524	0.2422	0.1102	-1.3098
12	17.16	0.00	2.2315	-2.9227	-0.0201	0.0527	0.0312	0.3518	0.2431	0.1087	-1.3097
13	18.15	0.00	2.4062	-3.0426	-0.0171	0.0577	0.0322	0.3601	0.2405	0.1196	-1.2635
14	19.19	0.00	2.5975	-3.1717	-0.0229	0.0737	0.0318	0.3525	0.2561	0.0964	-1.2218
15	20.23	-0.00	2.7832	-3.2184	-0.0297	0.0958	0.0200	0.3439	0.2587	0.0853	-1.1566
16	21.25	-0.00	2.9965	-3.2165	-0.0075	0.0743	0.0220	0.3470	0.2576	0.0894	-1.0734
17	22.29	-0.00	3.1926	-3.1500	0.0303	-0.0168	0.0234	0.3410	0.2742	0.0668	-0.9867
18	23.35	-0.00	3.4092	-2.9972	0.0718	-0.0972	0.0310	0.3328	0.2861	0.0467	-0.8792
19	24.41	-0.00	3.6771	-2.9183	0.0810	-0.1112	0.0277	0.3240	0.2928	0.0312	-0.7936
20	25.46	-0.00	3.9153	-2.8034	0.0921	-0.1322	0.0245	0.3125	0.3030	0.0094	-0.7168
21	26.51	-0.00	4.1651	-2.6462	0.1146	-0.1478	0.0260	0.3052	0.3080	-0.0028	-0.6328
22	27.59	-0.01	4.5634	-2.6463	0.1205	-0.1700	0.0255	0.3038	0.3094	-0.0056	-0.5368
23	28.66	-0.01	4.8552	-2.2354	0.1300	-0.1293	0.0235	0.2902	0.3153	-0.0191	-0.4604
24	29.74	-0.01	5.2404	-2.0814	0.2047	-0.2000	0.0303	0.2979	0.3228	-0.0249	-0.3972
25	30.81	-0.00	5.5514	-1.6690	0.1645	-0.2476	0.0307	0.2771	0.3265	-0.0494	-0.3547
26	20.24	-0.00	2.7865	-3.1661	-0.0404	0.1136	0.0278	0.3580	0.3083	0.0497	-1.1362
27	10.06	0.00	1.1765	-1.8763	0.0040	-0.0070	0.0314	0.3481	0.2082	0.1398	-1.5948

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	64	1.10	2.3	0.0	B4W0F22	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	0.00	-0.00	0.0011	0.0235	-0.0133	0.0355	0.0067	0.4805	0.1871	0.2934	20.6462
2	2.02	-0.00	0.2145	-0.2096	-0.0220	0.0844	0.0068	0.4853	0.1859	0.2994	-1.2559
3	2.02	-0.00	0.2032	-0.2380	-0.0122	0.0401	0.0049	0.4806	0.1986	0.2820	-1.1712
4	4.03	-0.00	0.4173	-0.5251	-0.0179	0.0689	0.0063	0.4818	0.1897	0.2921	-1.2585
5	6.05	-0.00	0.6454	-0.8365	-0.0105	0.0483	0.0073	0.4911	0.1955	0.2956	-1.2960
6	8.07	-0.00	0.8903	-1.1625	-0.0099	0.0502	0.0069	0.5072	0.1948	0.3124	-1.3058
7	8.07	-0.00	0.8880	-1.1872	-0.0018	0.0330	0.0055	0.5016	0.2148	0.2868	-1.3369
8	10.10	-0.00	1.1446	-1.4976	0.0040	0.0243	0.0079	0.5082	0.2248	0.2834	-1.3084
9	12.11	-0.00	1.4196	-1.7720	0.0059	0.0196	0.0072	0.5066	0.2268	0.2799	-1.2483
10	14.15	-0.00	1.7249	-2.0195	0.0019	0.0253	0.0123	0.5050	0.2331	0.2719	-1.1708
11	16.16	-0.00	2.0507	-2.2145	-0.0153	0.0712	0.0100	0.5030	0.2389	0.2640	-1.0799
12	17.23	-0.00	2.2244	-2.2678	-0.0187	0.0892	0.0080	0.5005	0.2484	0.2521	-1.0195
13	18.25	-0.00	2.4160	-2.3390	-0.0177	0.0990	0.0058	0.4958	0.2608	0.2349	-0.9681
14	19.27	-0.01	2.6167	-2.3821	-0.0209	0.1192	0.0022	0.4894	0.2649	0.2246	-0.9103
15	20.33	-0.01	2.8457	-2.3760	-0.0328	0.1634	-0.0031	0.4821	0.2745	0.2075	-0.8349
17	22.43	-0.01	3.3296	-2.4350	-0.0107	0.0974	0.0001	0.4633	0.2852	0.1781	-0.7313
18	22.43	-0.01	3.3431	-2.3637	0.0010	0.1025	-0.0045	0.4610	0.2764	0.1846	-0.7078
19	23.47	-0.01	3.5993	-2.3506	0.0055	0.0841	0.0030	0.4503	0.2802	0.1701	-0.6531
20	24.52	-0.01	3.8751	-2.2855	0.0164	0.0626	0.0043	0.4423	0.2811	0.1612	-0.5898
21	25.57	-0.01	4.1757	-2.1744	0.0223	0.0473	0.0039	0.4358	0.2788	0.1570	-0.5207
22	26.62	-0.01	4.4746	-2.1103	0.0583	0.0002	0.0080	0.4293	0.2888	0.1405	-0.4716
23	27.69	-0.01	4.7983	-2.0614	0.0853	-0.0298	0.0077	0.4269	0.2945	0.1324	-0.4296
24	28.79	-0.01	5.1374	-2.0334	0.0811	-0.0450	0.0027	0.4229	0.2900	0.1328	-0.3959
25	29.86	-0.01	5.4170	-1.9922	0.1411	-0.1916	0.0075	0.4182	0.2938	0.1244	-0.3678
26	30.88	-0.00	5.7076	-1.9757	0.1334	-0.2076	0.0071	0.4142	0.3038	0.1104	-0.3462
27	20.34	-0.01	2.8306	-2.3063	-0.0338	0.1614	0.0012	0.4827	0.2895	0.1932	-0.8148
28	10.07	-0.00	1.1462	-1.5156	0.0041	0.0255	0.0109	0.5047	0.2656	0.2391	-1.3200
29	0.00	-0.00	-0.0009	0.0154	-0.0133	0.0335	0.0126	0.4761	0.2037	0.2724	-18.0271

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RE/10**6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	65	1.20	2.3	0.0	B4*0F22	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	0.01	0.00	-0.0173	0.1043	-0.0051	-0.0039	0.0128	0.4761	0.1800	0.2960	-6.0400
2	2.02	0.00	0.1853	-0.1339	-0.0042	-0.0044	0.0127	0.4748	0.1660	0.3088	-0.7223
3	4.05	0.00	0.3973	-0.3942	-0.0019	-0.0065	0.0138	0.4724	0.1668	0.3055	-0.9921
4	6.05	0.00	0.6214	-0.6597	0.0006	-0.0104	0.0147	0.4833	0.1727	0.3105	-1.0607
5	8.10	0.00	0.8586	-0.9227	0.0059	-0.0186	0.0141	0.4931	0.1810	0.3120	-1.0747
6	10.11	0.00	1.0912	-1.1622	0.0053	-0.0213	0.0164	0.4917	0.1891	0.3026	-1.0651
7	12.14	0.00	1.3150	-1.3904	0.0152	-0.0262	0.0141	0.4865	0.1965	0.2900	-1.0112
8	14.19	0.00	1.5887	-1.5924	0.0125	-0.0243	0.0147	0.4866	0.1986	0.2880	-0.9430
9	14.20	0.00	1.5891	-1.5975	0.0176	-0.0348	0.0144	0.4874	0.2026	0.2848	-0.9347
10	16.24	-0.00	2.0482	-1.7563	-0.0095	0.0379	0.0180	0.4881	0.2070	0.2811	-0.8575
11	17.27	-0.00	2.2443	-1.7979	-0.0154	0.0430	0.0145	0.4866	0.2091	0.2775	-0.8011
12	18.32	-0.00	2.4290	-1.8386	-0.0175	0.0769	0.0110	0.4789	0.2167	0.2622	-0.7573
13	19.39	-0.00	2.7091	-1.8323	-0.0135	0.0776	0.0081	0.4803	0.2238	0.2565	-0.6763
14	20.41	-0.01	2.8918	-1.8372	-0.0107	0.0850	0.0059	0.4764	0.2322	0.2442	-0.6353
15	21.45	-0.01	3.2092	-1.7926	-0.0045	0.0883	0.0042	0.4724	0.2368	0.2356	-0.5586
16	22.52	-0.01	3.4810	-1.7135	-0.0028	0.0924	0.0041	0.4687	0.2435	0.2251	-0.4923
17	23.57	-0.01	3.7669	-1.6542	0.0118	0.0861	0.0038	0.4679	0.2481	0.2199	-0.4391
18	24.62	-0.01	4.0636	-1.5634	0.0344	0.0782	0.0047	0.4658	0.2492	0.2167	-0.3847
19	25.70	-0.01	4.3727	-1.4795	0.0552	-0.0148	0.0084	0.4617	0.2547	0.2071	-0.3383
20	26.77	-0.01	4.7117	-1.4208	0.0830	-0.0758	0.0133	0.4598	0.2692	0.1906	-0.3015
21	27.84	-0.01	5.0216	-1.4076	0.1087	-0.1180	0.0143	0.4596	0.2722	0.1874	-0.2803
22	28.91	-0.01	5.3370	-1.3911	0.1190	-0.1073	0.0144	0.4578	0.2756	0.1822	-0.2607
23	29.96	-0.00	5.6023	-1.4034	0.0983	-0.1761	0.0163	0.4580	0.2762	0.1818	-0.2505
24	31.03	-0.00	6.0227	-1.5125	0.1797	-0.3163	0.0181	0.4589	0.2802	0.1787	-0.2511
25	20.43	-0.00	2.9441	-1.7414	-0.0061	0.0793	0.0109	0.4799	0.2737	0.2063	-0.5915
26	10.12	0.00	1.1201	-1.1932	0.0094	-0.0167	0.0192	0.4943	0.2313	0.2630	-1.0652
27	0.00	0.00	-0.0213	0.0933	-0.0062	-0.0026	0.0172	0.4754	0.1856	0.2897	-4.3857
29	0.01	0.00	-0.0202	0.1048	-0.0032	-0.0209	0.0174	0.4490	0.1716	0.2774	-5.2001

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RE10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	6A	1.30	2.3	0.0	84=0F22	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	0.01	0.00	-0.0181	0.1016	0.0006	-0.0278	0.0187	0.4431	0.1533	0.2798	-5.6071
2	0.01	0.00	-0.0202	0.1018	0.0026	-0.0130	0.0190	0.4476	0.1716	0.2760	-5.0268
3	2.04	0.00	0.1727	-0.0868	0.0026	-0.0100	0.0186	0.4450	0.1715	0.2735	-0.5039
4	4.05	-0.00	0.3716	-0.2953	0.0076	0.0019	0.0211	0.4418	0.1688	0.2731	-0.7948
5	6.10	-0.00	0.5892	-0.5245	0.0070	-0.0007	0.0219	0.4498	0.1684	0.2814	-0.8981
6	8.10	-0.00	0.7982	-0.7280	0.0149	0.0024	0.0228	0.4569	0.1715	0.2854	-0.9120
7	10.14	-0.00	1.0798	-0.9534	0.0065	0.0057	0.0206	0.4606	0.1755	0.2851	-0.8829
8	12.16	-0.00	1.3601	-1.1378	0.0179	0.0002	0.0197	0.4620	0.1507	0.2813	-0.8365
9	14.24	-0.00	1.6512	-1.2499	0.0114	0.0051	0.0172	0.4623	0.1949	0.2775	-0.7570
10	16.28	-0.00	2.0250	-1.3555	0.0209	0.0065	0.0129	0.4658	0.1905	0.2752	-0.6694
11	17.31	-0.00	2.2315	-1.3929	0.0211	0.0168	0.0135	0.4631	0.1982	0.2649	-0.6242
12	18.36	-0.01	2.4604	-1.4342	0.0153	0.0500	0.0113	0.4642	0.2044	0.2598	-0.5782
13	19.42	-0.01	2.7421	-1.4452	0.0301	0.0326	0.0113	0.4617	0.2088	0.2529	-0.5270
14	20.46	-0.01	2.9874	-1.4334	0.0297	0.0256	0.0100	0.4620	0.2122	0.2498	-0.4797
15	21.52	-0.01	3.2630	-1.3960	0.0379	0.0104	0.0111	0.4636	0.2188	0.2448	-0.4278
16	22.56	-0.01	3.5233	-1.3685	0.0369	-0.0071	0.0109	0.4675	0.2211	0.2464	-0.3884
17	23.63	-0.01	3.7412	-1.3623	0.0575	-0.0377	0.0137	0.4651	0.2263	0.2387	-0.3641
18	24.73	-0.01	4.0647	-1.3418	0.0764	-0.0843	0.0157	0.4708	0.2321	0.2387	-0.3301
19	25.76	-0.00	4.4002	-1.3105	0.1115	-0.1540	0.0189	0.4723	0.2362	0.2360	-0.2978
20	26.81	-0.01	4.7198	-1.3234	0.1082	-0.1231	0.0190	0.4775	0.2430	0.2345	-0.2804
21	27.89	-0.01	5.0637	-1.4293	0.1137	-0.1103	0.0205	0.4761	0.2477	0.2284	-0.2823
22	28.95	-0.01	5.4241	-1.5080	0.1344	-0.1208	0.0177	0.4804	0.2519	0.2285	-0.2788
24	31.10	-0.01	6.1121	-1.6936	0.1729	-0.2065	0.0223	0.4820	0.2738	0.2082	-0.2771
25	20.44	-0.00	2.9708	-1.4497	0.0293	-0.0032	0.0165	0.4656	0.2619	0.2037	-0.4480
26	10.12	-0.00	1.1068	-1.1044	-0.0043	0.0433	0.0226	0.4737	0.2193	0.2544	-0.9978
27	-0.00	0.00	0.0190	-0.0713	-0.0157	0.0256	0.0236	0.4531	0.1751	0.2780	-3.7471

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	71	0.60	2.3	0.0	B4=0F23	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-0.00	0.00	0.0103	-0.0237	-0.0062	-0.0041	-0.0097	0.2345	0.1038	0.1306	-2.3048
2	2.01	0.00	0.1962	-0.2493	-0.0030	-0.0078	-0.0137	0.2372	0.1056	0.1316	-1.2705
3	4.02	0.00	0.4044	-0.5826	-0.0021	-0.0153	-0.0140	0.2346	0.1115	0.1230	-1.4407
4	6.03	0.00	0.6384	-1.0165	0.0030	-0.0227	-0.0141	0.2350	0.1119	0.1231	-1.5922
5	8.03	0.00	0.8822	-1.4121	0.0057	-0.0281	-0.0162	0.2471	0.1134	0.1337	-1.6007
6	10.06	0.00	1.1222	-1.7323	0.0056	-0.0273	-0.0129	0.2606	0.1267	0.1339	-1.5437
7	12.10	0.00	1.3496	-1.9291	-0.0020	-0.0163	-0.0116	0.2657	0.1440	0.1217	-1.4294
8	14.09	0.00	1.5540	-1.9765	-0.0098	-0.0021	-0.0125	0.2660	0.1564	0.1116	-1.2706
9	16.15	-0.00	1.7322	-1.8376	-0.0243	0.0513	-0.0117	0.2773	0.1749	0.1024	-1.0609
10	17.17	-0.00	1.8551	-1.8103	-0.0260	0.0610	-0.0123	0.2805	0.1960	0.0845	-0.9758
11	18.16	-0.00	1.9548	-1.8007	-0.0307	0.0796	-0.0127	0.2855	0.2209	0.0646	-0.9212
12	19.21	-0.00	2.1012	-1.7811	-0.0243	0.0751	-0.0172	0.2979	0.2553	0.0427	-0.8477
13	20.19	-0.00	2.2161	-1.7520	-0.0308	0.0944	-0.0179	0.3028	0.2751	0.0278	-0.7906
14	21.22	-0.00	2.3339	-1.7005	-0.0269	0.0724	-0.0206	0.3107	0.2926	0.0181	-0.7286
15	22.27	-0.00	2.4524	-1.6401	-0.0082	0.0433	-0.0197	0.3178	0.3186	-0.0008	-0.6688
16	23.30	-0.00	2.6174	-1.5674	0.0010	0.0223	-0.0154	0.3281	0.3287	-0.0005	-0.5988
17	24.32	-0.00	2.7879	-1.5078	0.0302	-0.0326	-0.0130	0.3294	0.3435	-0.0141	-0.5623
18	25.33	-0.00	2.9606	-1.5730	0.0469	-0.0673	-0.0141	0.3301	0.3570	-0.0268	-0.5313
19	26.40	-0.00	3.1491	-1.6174	0.0488	-0.0893	-0.0134	0.3303	0.3719	-0.0416	-0.5136
20	27.42	0.00	3.3317	-1.6963	0.1769	-0.3448	0.0205	0.3168	0.3737	-0.0569	-0.5091
21	28.43	0.00	3.5417	-1.7846	0.2519	-0.4945	0.0384	0.3100	0.3709	-0.0609	-0.5039
22	29.45	0.00	3.7336	-1.8465	0.3210	-0.6409	0.0472	0.3026	0.3761	-0.0735	-0.4946
23	30.46	0.01	3.9725	-2.0121	0.4593	-0.9556	0.0807	0.2949	0.3971	-0.1022	-0.5068
24	29.46	0.00	3.7577	-1.9148	0.3223	-0.6742	0.0471	0.3007	0.3974	-0.0967	-0.5096
25	30.49	0.01	3.9613	-1.9995	0.4720	-0.9777	0.0804	0.2947	0.3995	-0.1048	-0.5048
26	20.22	-0.00	2.2130	-1.7380	-0.0314	0.0786	-0.0124	0.3099	0.3227	-0.0129	-0.7854
27	20.22	-0.00	2.2156	-1.7428	-0.0280	0.0739	-0.0125	0.3070	0.3229	-0.0159	-0.7866
28	10.06	0.00	1.1133	-1.7238	0.0044	-0.0254	-0.0074	0.2609	0.1791	0.0818	-1.5484
29	-0.00	0.00	-0.0052	-0.0054	-0.0069	0.0018	-0.0042	0.2336	0.1037	0.1299	1.0393

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	72	0.65	2.3	0.0	B4W0F23	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-0.00	0.00	-0.0026	-0.0003	-0.0073	-0.0020	-0.0041	0.2385	0.1045	0.1340	0.1159
2	2.00	0.00	0.1826	-0.2264	-0.0030	-0.0114	-0.0097	0.2399	0.1056	0.1343	-1.2425
3	4.03	0.00	0.4011	-0.5627	-0.0018	-0.0168	-0.0099	0.2377	0.1120	0.1257	-1.4527
4	6.03	0.00	0.6449	-1.0517	0.0045	-0.0323	-0.0118	0.2411	0.1038	0.1373	-1.6309
5	8.05	0.00	0.8802	-1.4298	0.0058	-0.0359	-0.0104	0.2540	0.1358	0.1182	-1.6245
6	10.08	0.00	1.1104	-1.7369	0.0071	-0.0368	-0.0108	0.2669	0.1385	0.1283	-1.5642
7	12.06	0.00	1.3468	-1.9474	-0.0036	-0.0131	-0.0077	0.2717	0.1446	0.1271	-1.4438
8	14.09	0.00	1.5729	-2.0551	-0.0117	-0.0101	-0.0069	0.2710	0.1695	0.1015	-1.3066
9	14.09	0.00	1.5778	-2.0554	-0.0110	-0.0081	-0.0069	0.2741	0.1831	0.0909	-1.3030
10	16.13	0.00	1.7724	-1.9845	-0.0209	0.0288	-0.0096	0.2874	0.1920	0.0955	-1.1193
11	17.15	-0.00	1.8960	-1.9492	-0.0270	0.0524	-0.0102	0.3001	0.2209	0.0792	-1.0281
12	18.18	-0.00	2.0069	-1.9201	-0.0290	0.0595	-0.0125	0.2988	0.2393	0.0596	-0.9568
13	19.23	-0.00	2.1263	-1.9034	-0.0280	0.0704	-0.0131	0.3033	0.2621	0.0412	-0.8951
14	20.24	-0.00	2.2279	-1.8372	-0.0223	0.0623	-0.0156	0.3206	0.2830	0.0377	-0.8246
15	21.26	-0.00	2.4044	-1.7621	-0.0121	0.0427	-0.0169	0.3304	0.2971	0.0333	-0.7328
16	22.30	-0.00	2.5295	-1.6515	-0.0026	0.0298	-0.0145	0.3418	0.3263	0.0155	-0.6529
17	23.31	-0.00	2.6637	-1.5778	0.0134	0.0259	-0.0117	0.3483	0.3432	0.0051	-0.5923
18	24.33	-0.00	2.8458	-1.5889	0.0260	-0.0003	-0.0077	0.3490	0.3524	-0.0034	-0.5583
19	25.38	-0.00	3.0265	-1.5952	0.0433	-0.0515	-0.0037	0.3461	0.3702	-0.0240	-0.5271
20	26.36	-0.00	3.2038	-1.6258	0.0668	-0.0998	0.0004	0.3421	0.3791	-0.0369	-0.5074
21	27.42	-0.00	3.3955	-1.7101	0.1905	-0.3500	0.0309	0.3245	0.3836	-0.0591	-0.5036
22	28.43	0.00	3.6139	-1.7929	0.2646	-0.5050	0.0464	0.3160	0.3798	-0.0638	-0.4961
23	29.48	-0.00	3.8634	-1.9093	0.2217	-0.4020	0.0375	0.3040	0.3925	-0.0885	-0.4942
24	30.53	-0.00	4.1206	-2.0200	0.2996	-0.5412	0.0531	0.2911	0.3916	-0.1006	-0.4902
25	20.22	-0.00	2.2535	-1.4249	-0.0183	0.0383	-0.0125	0.3263	0.3554	-0.0291	-0.8098
26	10.05	0.00	1.1175	-1.7562	0.0072	-0.0349	-0.0073	0.2679	0.2130	0.0549	-1.5714
27	-0.00	0.00	-0.0049	-0.0095	-0.0097	-0.0007	-0.0041	0.2399	0.1295	0.1104	1.9186

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	73	0.62	2.3	0.0	B=0F23	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-0.00	0.00	-0.0095	0.0141	-0.0071	-0.0077	-0.0007	0.2515	0.1057	0.1458	-1.4780
2	-0.00	0.00	-0.0072	0.0107	-0.0093	-0.0044	-0.0023	0.2516	0.1094	0.1422	-1.4858
3	2.00	0.00	0.1802	-0.2124	-0.0040	-0.0152	-0.0078	0.2529	0.1152	0.1377	-1.1815
4	4.01	0.00	0.3936	-0.5679	-0.0006	-0.0258	-0.0080	0.2498	0.1200	0.1298	-1.4428
5	6.01	0.00	0.6629	-1.1104	0.0042	-0.0642	-0.0134	0.2516	0.1226	0.1290	-1.6752
6	8.03	0.00	0.9268	-1.6171	-0.0001	-0.0167	0.0019	0.2673	0.1268	0.1405	-1.7447
7	10.07	0.00	1.1654	-1.9735	0.0057	-0.0420	-0.0087	0.2814	0.1406	0.1408	-1.6491
8	12.09	0.00	1.4022	-2.1402	-0.0022	-0.0248	-0.0026	0.2933	0.1567	0.1366	-1.5263
9	14.09	0.00	1.6393	-2.2642	-0.0134	-0.0059	0.0002	0.3034	0.1669	0.1365	-1.3934
10	16.15	0.00	1.9041	-2.3580	-0.0155	0.0005	-0.0093	0.3072	0.2144	0.0928	-1.2384
11	17.17	0.00	2.0022	-2.3159	-0.0155	0.0144	-0.0081	0.3196	0.2370	0.0826	-1.1567
12	18.19	0.00	2.1342	-2.3026	-0.0210	0.0306	-0.0121	0.3276	0.2596	0.0681	-1.0764
13	19.22	-0.00	2.2056	-2.2361	-0.0213	0.0387	-0.0125	0.3308	0.2832	0.0476	-1.0138
14	20.22	-0.00	2.3706	-2.1066	-0.0119	0.0247	-0.0172	0.3497	0.3105	0.0393	-0.8894
15	21.26	-0.00	2.4912	-1.9138	-0.0174	0.0463	-0.0165	0.3627	0.3200	0.0427	-0.7682
16	22.32	-0.00	2.6395	-1.7881	-0.0033	0.0511	-0.0092	0.3835	0.3418	0.0417	-0.6767
17	23.31	-0.00	2.7858	-1.7458	-0.0006	0.0579	-0.0066	0.3843	0.3522	0.0321	-0.6267
18	24.38	-0.00	2.9876	-1.7428	0.0173	0.0211	-0.0079	0.3806	0.3697	0.0109	-0.5834
19	25.41	-0.00	3.1824	-1.7543	0.0490	-0.0458	-0.0060	0.3772	0.3775	-0.0003	-0.5512
20	26.42	-0.00	3.4013	-1.7237	0.1287	-0.1995	0.0134	0.3674	0.3822	-0.0148	-0.5068
21	27.49	-0.00	3.6388	-1.6460	0.1461	-0.2245	0.0202	0.3597	0.3930	-0.0332	-0.4524
22	28.58	-0.01	3.9187	-1.6241	0.1803	-0.2377	0.0215	0.3545	0.3886	-0.0341	-0.3634
23	29.66	-0.01	4.2818	-1.0976	0.1384	-0.1298	0.0130	0.3538	0.3974	-0.0436	-0.2563
24	30.68	-0.01	4.5647	-0.8827	0.1063	-0.0567	0.0066	0.3448	0.4123	-0.0675	-0.1932
25	20.24	-0.00	2.3754	-2.1265	-0.0093	0.0249	-0.0088	0.3555	0.3811	-0.0256	-0.8952
26	10.04	0.00	1.1675	-1.9491	-0.0034	-0.0328	-0.0036	0.2864	0.2617	0.0247	-1.6694
27	-0.00	0.00	-0.0095	0.0019	-0.0093	0.0014	0.0011	0.2483	0.1459	0.1024	-0.2018

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RE/0-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	74	0.90	2.3	0.0	B4=0F23	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
2	-0.00	-0.00	0.0066	-0.0479	-0.0151	0.0349	-0.0099	0.3186	0.1337	0.1850	-7.3185
3	2.03	0.00	0.2319	-0.4299	-0.0117	0.0169	-0.0118	0.3160	0.1373	0.1787	-1.8538
4	4.01	0.00	0.4766	-0.8994	-0.0046	-0.0011	-0.0137	0.3185	0.1515	0.1670	-1.8872
5	6.04	0.00	0.7009	-1.3420	-0.0010	-0.0235	-0.0124	0.3288	0.1517	0.1771	-1.9147
6	8.12	0.00	0.9965	-1.8826	0.0001	-0.0305	-0.0078	0.3473	0.1630	0.1843	-1.8938
8	12.07	0.00	1.5449	-2.8644	-0.0106	-0.0132	0.0091	0.3583	0.2066	0.1516	-1.7246
9	14.10	0.00	1.7890	-2.7677	-0.0236	0.0312	0.0087	0.3695	0.2187	0.1508	-1.5470
10	16.14	0.00	2.0397	-2.8194	-0.0133	0.0233	-0.0050	0.3716	0.2566	0.1150	-1.3825
11	17.14	-0.00	2.1846	-2.8471	-0.0106	0.0235	-0.0089	0.3801	0.2682	0.1120	-1.3832
12	18.16	-0.00	2.3247	-2.8554	-0.0091	0.0311	-0.0095	0.3840	0.2809	0.1031	-1.2283
13	19.22	-0.00	2.5111	-2.8430	-0.0130	0.0359	-0.0153	0.3864	0.3074	0.0790	-1.1322
14	20.22	-0.00	2.6800	-2.8011	-0.0209	0.0419	-0.0224	0.3831	0.3093	0.0738	-1.0452
15	21.29	-0.00	2.8515	-2.7220	-0.0139	0.0475	-0.0252	0.3756	0.3236	0.0520	-0.9544
16	22.34	-0.00	3.0252	-2.5615	0.0108	0.0177	-0.0170	0.3707	0.3370	0.0337	-0.8467
17	23.37	-0.00	3.2751	-2.4591	0.0308	-0.0198	-0.0156	0.3696	0.3359	0.0337	-0.7508
18	24.41	-0.01	3.5057	-2.3022	0.0342	-0.0344	-0.0138	0.3623	0.3418	0.0205	-0.6567
19	25.46	-0.01	3.6757	-2.1295	0.0579	-0.0232	-0.0040	0.3553	0.3519	0.0034	-0.5793
20	26.57	-0.01	4.0001	-1.8039	0.1018	-0.0468	0.0064	0.3595	0.3588	0.0007	-0.4518
21	27.61	-0.01	4.3256	-1.5871	0.0997	-0.0023	0.0046	0.3554	0.3596	-0.0041	-0.3669
22	28.74	-0.01	4.6617	-1.3551	0.0827	-0.0048	-0.0043	0.3385	0.3576	-0.0191	-0.2907
23	29.79	-0.01	5.0895	-1.2819	0.0987	-0.0622	-0.0056	0.3286	0.3583	-0.0296	-0.2519
24	30.82	-0.01	5.3039	-1.0102	0.0646	0.0769	-0.0115	0.3361	0.3645	-0.0284	-0.1905
25	20.24	-0.00	2.6910	-2.7856	-0.0173	0.0550	-0.0193	0.3918	0.3474	0.0444	-1.0352
26	20.23	-0.00	2.6625	-2.7723	-0.0158	0.0431	-0.0210	0.3828	0.3454	0.0374	-1.0413
27	10.03	0.00	1.2664	-2.3235	-0.0024	-0.0320	-0.0050	0.3616	0.2572	0.1044	-1.8347
28	-0.00	-0.00	0.0089	-0.0591	-0.0151	0.0367	-0.0115	0.3217	0.1630	0.1587	-6.6605

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	75	1.10	2.3	0.0	B4W0F23	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	0.00	-0.00	-0.0095	0.0288	-0.0176	0.0472	-0.0083	0.5010	0.1987	0.3023	-3.0213
2	2.03	-0.00	0.2301	-0.3859	-0.0149	0.0450	-0.0096	0.5016	0.2061	0.2956	-1.6767
3	4.04	-0.00	0.4709	-0.8103	-0.0113	0.0348	-0.0116	0.4995	0.2005	0.2990	-1.7287
4	6.03	-0.00	0.7246	-1.2571	-0.0105	0.0285	-0.0103	0.5117	0.2069	0.3048	-1.7350
5	8.07	-0.00	0.9864	-1.6721	-0.0087	0.0175	-0.0091	0.5162	0.2188	0.2974	-1.6952
8	14.13	-0.00	1.8348	-2.5877	-0.0133	0.0312	-0.0046	0.5150	0.2451	0.2699	-1.4103
9	14.13	-0.00	1.8425	-2.5811	-0.0111	0.0335	-0.0046	0.5160	0.2506	0.2654	-1.4009
10	16.16	-0.00	2.1447	-2.7331	-0.0141	0.0503	-0.0101	0.5103	0.2527	0.2576	-1.2744
11	17.20	-0.00	2.3129	-2.7866	-0.0186	0.0698	-0.0092	0.5082	0.2562	0.2520	-1.2032
12	18.22	-0.01	2.4787	-2.7800	-0.0239	0.1067	0.0008	0.5018	0.2600	0.2418	-1.1216
13	19.25	-0.01	2.6387	-2.6911	-0.0285	0.1259	-0.0121	0.5007	0.2668	0.2339	-1.0199
14	20.31	-0.01	2.8870	-2.6485	-0.0249	0.1374	-0.0162	0.4962	0.2761	0.2220	-0.9174
15	21.34	-0.01	3.1185	-2.6192	-0.0062	0.0949	-0.0177	0.4901	0.2798	0.2103	-0.8399
16	22.40	-0.01	3.3618	-2.5723	-0.0134	0.1008	-0.0147	0.4796	0.2807	0.1989	-0.7651
17	22.41	-0.01	3.3790	-2.4840	0.0076	0.0800	-0.0240	0.4790	0.2781	0.2009	-0.7351
18	23.46	-0.01	3.6353	-2.4322	-0.0085	0.0989	-0.0149	0.4701	0.2652	0.1849	-0.6690
19	24.55	-0.01	3.9220	-2.3210	0.0106	0.0570	-0.0199	0.4611	0.2627	0.1784	-0.5918
20	25.58	-0.01	4.2323	-2.1861	0.0189	0.0617	-0.0187	0.4505	0.2821	0.1684	-0.5165
21	26.65	-0.01	4.5626	-2.1211	0.0643	-0.0108	-0.0074	0.4423	0.2853	0.1569	-0.4649
22	27.75	-0.01	4.8879	-2.1088	0.0677	0.0145	-0.0147	0.4372	0.2868	0.1504	-0.4318
23	28.79	-0.01	5.2641	-2.0606	0.0589	0.0224	-0.0197	0.4323	0.2878	0.1445	-0.3914
24	29.86	-0.01	5.5660	-1.9958	0.0933	-0.0949	-0.0164	0.4289	0.2911	0.1378	-0.3586
25	30.91	-0.01	5.7255	-1.6342	0.0868	-0.0663	-0.0204	0.4297	0.2949	0.1349	-0.3212
26	20.32	-0.01	2.8706	-2.5995	-0.0404	0.1655	-0.0191	0.5009	0.2894	0.2115	-0.9056
27	12.08	0.00	1.5319	-2.3125	-0.0123	0.0238	-0.0025	0.5205	0.2708	0.2498	-1.5095
28	10.07	-0.00	1.2506	-2.0443	-0.0079	0.0190	-0.0049	0.5198	0.2605	0.2592	-1.6347
29	-0.00	-0.00	-0.0116	0.0244	-0.0195	0.0568	-0.0051	0.4963	0.2295	0.2668	-2.1036

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	74	1.20	2.3	0.0	B4=0F23	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	0.01	0.00	-0.0255	0.1140	-0.0072	0.0023	-0.0042	0.4982	0.1962	0.3019	-4.4632
2	0.00	0.00	-0.0296	0.1166	-0.0072	0.0023	-0.0057	0.4977	0.1855	0.3122	-3.9399
3	2.04	0.00	0.2105	-0.2820	-0.0028	-0.0089	-0.0058	0.4944	0.1817	0.3127	-1.3399
4	4.05	0.00	0.4475	-0.6097	-0.0023	-0.0162	-0.0075	0.4895	0.1824	0.3072	-1.4965
7	10.09	0.00	1.2073	-1.6916	0.0127	-0.0331	-0.0072	0.5134	0.1960	0.3174	-1.4011
8	12.14	0.00	1.4901	-1.9196	0.0127	-0.0373	-0.0066	0.5121	0.1990	0.3131	-1.2882
9	14.15	0.00	1.8007	-2.0950	0.0114	-0.0412	-0.0078	0.5153	0.2070	0.3083	-1.1635
10	16.20	0.00	2.1311	-2.2264	0.0054	-0.0209	-0.0089	0.5110	0.2134	0.2976	-1.0447
11	17.23	-0.00	2.3149	-2.2346	0.0053	-0.0076	-0.0097	0.5101	0.2150	0.2951	-0.9653
12	18.26	-0.00	2.5164	-2.1616	-0.0094	0.0328	-0.0148	0.5044	0.2198	0.2846	-0.8678
13	19.33	-0.00	2.7594	-2.1229	-0.0168	0.0634	-0.0145	0.5022	0.2251	0.2771	-0.7693
14	20.43	-0.01	3.0141	-2.0424	-0.0094	0.0626	-0.0160	0.4978	0.2290	0.2687	-0.6765
15	21.48	-0.01	3.2935	-1.9437	-0.0027	0.0633	-0.0176	0.4952	0.2305	0.2647	-0.5902
16	22.51	-0.01	3.5490	-1.8324	0.0019	0.0702	-0.0176	0.4860	0.2329	0.2531	-0.5163
17	23.58	-0.01	3.8179	-1.7245	0.0153	0.0593	-0.0178	0.4765	0.2377	0.2388	-0.4517
18	24.67	-0.01	4.1144	-1.5982	0.0370	0.0234	-0.0155	0.4698	0.2400	0.2298	-0.3884
19	25.70	-0.01	4.4201	-1.5067	0.0508	0.0089	-0.0130	0.4643	0.2430	0.2213	-0.3409
21	27.85	-0.01	5.0678	-1.4325	0.1067	-0.0769	-0.0068	0.4569	0.2569	0.1999	-0.2827
22	28.90	-0.01	5.3674	-1.3973	0.1193	-0.1072	-0.0087	0.4523	0.2609	0.1914	-0.2603
23	29.95	-0.01	5.6590	-1.4219	0.1843	-0.3185	-0.0034	0.4529	0.2661	0.1868	-0.2513
24	31.02	-0.00	6.0264	-1.4994	0.1909	-0.3454	0.0004	0.4499	0.2715	0.1784	-0.2488
25	20.39	-0.00	3.0106	-1.9944	-0.0074	0.0549	-0.0133	0.5010	0.2605	0.2405	-0.6626
26	26.77	-0.01	4.7501	-1.4429	0.0766	-0.0536	-0.0067	0.4595	0.2445	0.2150	-0.3038
27	10.08	0.00	1.2116	-1.6915	0.0067	-0.0446	-0.0031	0.5153	0.2320	0.2833	-1.3961
28	8.07	0.00	0.9409	-1.3949	0.0080	-0.0244	-0.0023	0.5117	0.2105	0.3012	-1.4825
29	6.03	0.00	0.6927	-1.0559	0.0103	-0.0304	-0.0020	0.4989	0.2018	0.2971	-1.5244
30	0.00	0.00	-0.0356	0.1117	-0.0053	0.0011	-0.0042	0.4974	0.1970	0.3004	-3.1355

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RE/10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	77	1.30	2.3	0.0	B4W0F23	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	0.00	0.00	-0.0322	0.1247	0.0025	-0.0180	-0.0029	0.4760	0.1843	0.2917	-3.8554
2	2.02	0.00	0.1655	-0.1630	-0.0068	-0.0102	-0.0031	0.4743	0.1843	0.2900	-0.8790
3	4.04	-0.00	0.4077	-0.4608	0.0024	0.0005	-0.0018	0.4736	0.1839	0.2898	-1.1302
4	6.08	0.00	0.6327	-0.7557	-0.0010	-0.0051	-0.0022	0.4766	0.1821	0.2944	-1.1953
5	8.08	0.00	0.8864	-1.0507	0.0035	-0.0168	-0.0029	0.4951	0.1859	0.3092	-1.1854
6	10.13	-0.00	1.1549	-1.3241	0.0073	-0.0155	-0.0048	0.4981	0.1900	0.3081	-1.1420
8	12.15	0.00	1.4561	-1.5210	0.0094	-0.0221	-0.0065	0.5047	0.2047	0.3000	-1.0431
9	14.22	-0.00	1.7732	-1.6477	0.0135	-0.0275	-0.0064	0.5060	0.2068	0.2991	-0.9293
10	16.27	-0.00	2.1296	-1.7216	0.0046	0.0016	-0.0030	0.5056	0.2135	0.2921	-0.8084
11	17.31	-0.00	2.3609	-1.7352	-0.0043	0.0301	-0.0039	0.5032	0.2178	0.2855	-0.7358
12	18.35	-0.00	2.6125	-1.7293	0.0020	0.0300	-0.0065	0.5006	0.2207	0.2799	-0.6619
13	19.41	-0.00	2.8623	-1.6912	0.0130	0.0150	-0.0079	0.4987	0.2243	0.2744	-0.5909
14	20.46	-0.01	3.1044	-1.6328	0.0222	0.0144	-0.0065	0.4936	0.2275	0.2661	-0.5259
15	21.56	-0.01	3.3724	-1.5368	0.0209	0.0196	-0.0067	0.4893	0.2298	0.2595	-0.4557
16	22.58	-0.01	3.6661	-1.4495	0.0276	0.0154	-0.0055	0.4869	0.2322	0.2546	-0.3954
17	23.65	-0.01	3.9469	-1.3943	0.0265	0.0268	-0.0070	0.4831	0.2364	0.2466	-0.3533
18	24.73	-0.01	4.2530	-1.3402	0.0343	0.0093	-0.0048	0.4836	0.2409	0.2426	-0.3151
19	25.80	-0.01	4.5677	-1.2946	0.0470	-0.0004	-0.0035	0.4823	0.2446	0.2377	-0.2834
20	26.87	-0.01	4.9264	-1.3405	0.0640	-0.0232	-0.0011	0.4805	0.2508	0.2297	-0.2721
21	26.87	-0.01	4.9351	-1.3425	0.0611	-0.0256	0.0002	0.4776	0.2550	0.2226	-0.2720
22	27.92	-0.01	5.2697	-1.4023	0.0742	-0.0330	-0.0026	0.4782	0.2583	0.2198	-0.2661
23	28.97	-0.01	5.6073	-1.4640	0.0747	-0.0289	-0.0043	0.4807	0.2602	0.2205	-0.2611
24	30.05	-0.01	5.9625	-1.5413	0.0771	-0.0541	-0.0101	0.4844	0.2644	0.2200	-0.2585
25	31.07	-0.01	6.2799	-1.6462	0.0832	-0.0489	-0.0127	0.4837	0.2700	0.2137	-0.2621
26	20.48	-0.00	3.1358	-1.5659	0.0261	-0.0164	-0.0017	0.4944	0.2540	0.2404	-0.4994
27	10.12	0.00	1.1537	-1.2976	0.0034	-0.0211	-0.0009	0.5038	0.2351	0.2687	-1.1247
28	0.01	0.00	-0.0357	0.1314	-0.0023	-0.0157	0.0026	0.4772	0.2079	0.2693	-3.6828

ARNOLD ENGINEERING DEVELOPMENT CENTER(ALDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	82	0.80	2.3	0.0	B4=OF21	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
2	2.03	-0.00	0.1911	-0.2154	-0.0030	0.0054	-0.0136	0.2447	0.1021	0.1425	-1.1270
3	4.05	-0.00	0.3932	-0.5133	-0.0046	0.0170	-0.0156	0.2443	0.1054	0.1389	-1.3054
4	6.01	-0.00	0.5902	-0.8001	-0.0013	-0.0002	-0.0197	0.2504	0.1090	0.1414	-1.3555
5	8.05	-0.00	0.7978	-1.0370	0.0047	-0.0098	-0.0184	0.2701	0.1252	0.1448	-1.2998
6	10.09	-0.00	0.9729	-1.1437	-0.0133	0.0016	-0.0021	0.2874	0.1412	0.1462	-1.1756
7	12.11	-0.00	1.1802	-1.2079	-0.0134	0.0095	-0.0068	0.3037	0.1467	0.1570	-1.0235
8	14.11	-0.00	1.3859	-1.2626	-0.0229	0.0443	-0.0079	0.3126	0.1741	0.1385	-0.9091
9	16.15	-0.00	1.5976	-1.3211	-0.0255	0.0643	-0.0106	0.3176	0.2077	0.1099	-0.8167
10	17.17	-0.00	1.7273	-1.3358	-0.0243	0.0685	-0.0111	0.3179	0.2247	0.0932	-0.7733
11	18.21	-0.00	1.8585	-1.3593	-0.0142	0.0622	-0.0135	0.3192	0.2375	0.0817	-0.7314
12	19.23	-0.00	1.9990	-1.3484	-0.0052	0.0537	-0.0143	0.3251	0.2547	0.0705	-0.6765
13	20.24	-0.00	2.1197	-1.3094	-0.0027	0.0522	-0.0096	0.3313	0.2921	0.0392	-0.6179
14	21.26	-0.01	2.2275	-1.2233	0.0135	0.0485	-0.0031	0.3403	0.3007	0.0396	-0.5492
15	22.27	-0.01	2.3562	-1.1025	-0.0177	0.1539	0.0058	0.3535	0.3132	0.0403	-0.4679
16	23.34	-0.01	2.4969	-1.0322	-0.0096	0.1428	0.0066	0.3638	0.3205	0.0432	-0.4134
17	24.34	-0.01	2.6554	-1.0214	0.0142	0.0801	0.0053	0.3680	0.3381	0.0299	-0.3847
18	25.35	-0.01	2.8224	-1.0415	0.0370	0.0256	0.0059	0.3666	0.3508	0.0159	-0.3698
19	26.38	-0.01	3.0076	-1.0633	0.0425	0.0051	0.0012	0.3661	0.3614	0.0047	-0.3536
20	27.42	-0.00	3.1959	-1.1296	0.0729	-0.0929	-0.0004	0.3581	0.3708	-0.0127	-0.3534
21	28.45	0.00	3.3803	-1.1931	0.1853	-0.3742	0.0127	0.3512	0.3675	-0.0162	-0.3538
22	28.44	0.00	3.3677	-1.1872	0.1927	-0.3885	0.0129	0.3477	0.3981	-0.0504	-0.3525
23	29.48	-0.01	3.5466	-1.3171	-0.0140	0.0922	-0.0278	0.3399	0.3994	-0.0595	-0.3674
24	30.48	0.00	3.7655	-1.3672	0.1131	-0.2525	-0.0042	0.3294	0.3956	-0.0663	-0.3631
25	20.24	-0.00	2.1037	-1.2913	-0.0028	0.0458	-0.0006	0.3283	0.3333	-0.0050	-0.6138
26	10.05	-0.00	0.9730	-1.1420	-0.0132	0.0504	0.0086	0.2849	0.1979	0.0870	-1.1737
27	-0.00	0.00	0.0076	-0.0288	-0.0087	0.0081	-0.0005	0.2383	0.1061	0.1321	-3.7758

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	83	0.85	2.3	0.0	84=0F21	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-0.00	0.00	0.0026	-0.0376	-0.0084	0.0056	-0.0022	0.2408	0.0990	0.1419	-14.6327
2	2.02	0.00	0.1766	-0.2094	-0.0066	0.0042	-0.0061	0.2347	0.1239	0.1158	-1.1853
3	4.01	0.00	0.3821	-0.5167	-0.0056	0.0096	-0.0080	0.2402	0.1025	0.1377	-1.3523
4	6.03	0.00	0.5856	-0.7956	-0.0017	-0.0170	-0.0087	0.2531	0.1041	0.1490	-1.3589
5	8.06	0.00	0.7865	-1.0213	0.0022	-0.0165	-0.0074	0.2756	0.1299	0.1457	-1.2985
6	10.07	-0.00	1.0045	-1.1789	-0.0147	0.0396	0.0064	0.2896	0.1495	0.1401	-1.1737
7	12.10	-0.00	1.1922	-1.2809	-0.0163	0.0419	0.0021	0.3058	0.1588	0.1470	-1.0744
8	14.11	0.00	1.4075	-1.3472	-0.0214	0.0355	0.0010	0.3145	0.1782	0.1362	-0.9572
9	16.16	0.00	1.6449	-1.4101	-0.0203	0.0370	-0.0053	0.3254	0.2133	0.1121	-0.8572
10	17.18	-0.00	1.7687	-1.4404	-0.0157	0.0397	-0.0040	0.3281	0.2298	0.0983	-0.8146
11	18.20	-0.00	1.9130	-1.4588	-0.0100	0.0365	-0.0082	0.3344	0.2514	0.0830	-0.7626
12	19.22	-0.00	2.0262	-1.4414	-0.0028	0.0363	-0.0036	0.3360	0.2704	0.0657	-0.7114
13	20.23	-0.00	2.1478	-1.3525	0.0089	-0.0136	-0.0085	0.3493	0.2869	0.0624	-0.6297
14	21.27	-0.01	2.2709	-1.2297	0.0120	0.0725	0.0020	0.3642	0.2940	0.0702	-0.5015
15	22.30	-0.01	2.4064	-1.1171	-0.0314	0.1456	0.0123	0.3778	0.3251	0.0527	-0.4642
16	23.36	-0.01	2.5547	-1.0735	-0.0080	0.1224	0.0108	0.3820	0.3366	0.0453	-0.4202
17	24.37	-0.01	2.7251	-1.0917	0.0104	0.0711	0.0113	0.3844	0.3457	0.0387	-0.3969
18	25.38	-0.01	2.8976	-1.0915	0.0253	0.0354	0.0119	0.3807	0.3729	0.0078	-0.3767
19	26.44	-0.00	3.0882	-1.1243	0.0596	-0.0388	0.0123	0.3759	0.3756	0.0002	-0.3641
20	27.43	-0.00	3.2749	-1.1632	0.0374	-0.0122	0.0081	0.3679	0.3836	-0.0157	-0.3548
21	28.47	0.00	3.4349	-1.2130	0.1461	-0.2803	0.0174	0.3600	0.3762	-0.0163	-0.3531
22	29.50	-0.00	3.6900	-1.3085	-0.0243	0.0871	-0.0228	0.3501	0.3984	-0.0484	-0.3546
23	30.52	-0.00	3.9274	-1.3990	-0.0440	0.0916	-0.0309	0.3339	0.4079	-0.0740	-0.3562
24	20.24	-0.00	2.1392	-1.3452	0.0101	-0.0111	0.0003	0.3482	0.3526	-0.0044	-0.6288
25	10.07	-0.00	0.9850	-1.1814	-0.0136	0.0417	0.0134	0.2913	0.2252	0.0661	-1.1994
26	-0.30	0.00	-0.0047	-0.0396	-0.0072	0.0018	0.0065	0.2387	0.1075	0.1312	8.4443

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	84	0.92	2.3	0.0	84+0F21	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLN	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-0.00	0.00	-0.0044	-0.0296	-0.0058	-0.0077	0.0060	0.2466	0.0875	0.1591	6.6456
2	2.01	0.00	0.1691	-0.1693	-0.0018	-0.0142	0.0027	0.2485	0.0984	0.1501	-1.1195
3	4.02	0.00	0.3839	-0.5257	-0.0030	-0.0161	0.0003	0.2486	0.1159	0.1329	-1.3691
4	6.06	0.00	0.5813	-0.7856	-0.0064	0.0116	0.0036	0.2679	0.1240	0.1439	-1.3515
5	8.06	-0.00	0.8029	-1.0862	-0.0151	0.0586	0.0118	0.2948	0.1586	0.1362	-1.3528
6	10.09	0.00	1.0012	-1.2244	0.0003	-0.0032	0.0007	0.3166	0.1620	0.1545	-1.2229
7	12.10	0.00	1.2263	-1.3930	-0.0167	0.0375	0.0118	0.3249	0.1803	0.1446	-1.1360
8	14.12	0.00	1.4654	-1.5426	-0.0266	0.0387	0.0075	0.3412	0.1955	0.1457	-1.0528
9	16.16	0.00	1.7178	-1.6433	-0.0208	0.0294	-0.0002	0.3526	0.2368	0.1158	-0.9566
10	17.19	0.00	1.8534	-1.6819	-0.0146	0.0243	-0.0041	0.3569	0.2690	0.0879	-0.9075
11	18.19	-0.00	1.9706	-1.7058	-0.0168	0.0369	-0.0029	0.3605	0.2894	0.0712	-0.8656
12	19.24	-0.00	2.1109	-1.6751	-0.0052	0.0266	-0.0004	0.3645	0.3103	0.0542	-0.7935
13	20.28	-0.00	2.2453	-1.5707	0.0157	-0.0336	-0.0102	0.3723	0.3212	0.0511	-0.6995
14	21.27	0.00	2.3816	-1.4694	0.0389	-0.1037	-0.0134	0.3910	0.3172	0.0737	-0.6170
15	21.28	-0.00	2.3987	-1.4396	0.0362	-0.0310	0.0037	0.4003	0.3470	0.0533	-0.6002
16	22.33	-0.01	2.5053	-1.2741	-0.0004	0.1067	0.0151	0.4128	0.3431	0.0697	-0.5086
17	23.35	-0.01	2.6755	-1.2653	-0.0150	0.1181	0.0159	0.4137	0.3533	0.0604	-0.4729
18	24.38	-0.01	2.8622	-1.2599	-0.0085	0.1256	0.0102	0.4155	0.3634	0.0522	-0.4402
19	25.42	-0.01	3.0293	-1.2584	-0.0138	0.1183	0.0043	0.4094	0.3709	0.0386	-0.4154
20	26.45	-0.01	3.2495	-1.2363	0.0449	0.0013	0.0107	0.4055	0.3801	0.0254	-0.3805
21	27.49	-0.01	3.4706	-1.1667	0.0459	-0.0039	0.0109	0.3950	0.3910	0.0040	-0.3362
22	28.56	-0.00	3.7764	-1.0194	0.1008	-0.1766	0.0246	0.3853	0.3894	-0.0040	-0.2699
23	29.47	-0.01	4.0429	-0.7420	-0.0284	0.1325	0.0009	0.3757	0.3923	-0.0166	-0.1835
24	29.64	-0.01	4.0716	-0.7628	-0.0172	0.1068	-0.0025	0.3749	0.4082	-0.0333	-0.1874
25	30.72	-0.00	4.3948	-0.5863	-0.3968	0.7593	-0.0683	0.3615	0.4082	-0.0466	-0.1334
26	20.25	0.00	2.2347	-1.5681	0.0117	-0.0400	-0.0037	0.3781	0.3742	0.0039	-0.7017
27	20.25	0.00	2.2523	-1.5856	0.0164	-0.0410	-0.0037	0.3790	0.3609	0.0181	-0.7041
28	10.08	0.00	0.9944	-1.2110	-0.0031	-0.0040	0.0071	0.3184	0.2669	0.0514	-1.2117
29	-0.00	0.00	-0.0067	-0.0299	-0.0092	-0.0065	0.0124	0.2484	0.1432	0.1052	4.4702

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	87	0.68	2.3	0.0	B4+0F21	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	0.00	-0.00	-0.0006	0.0202	-0.0043	0.0159	-0.0038	0.3079	0.1078	0.2001	-34.9576
2	2.02	-0.00	0.2046	-0.2858	-0.0011	0.0078	-0.0103	0.3050	0.1309	0.1740	-1.3971
3	4.02	-0.00	0.4263	-0.6779	-0.0008	0.0133	-0.0136	0.3143	0.1218	0.1925	-1.5903
4	6.04	-0.00	0.6910	-1.1816	0.0109	-0.0132	-0.0077	0.3496	0.1478	0.2017	-1.7100
5	8.05	-0.00	0.8809	-1.3356	-0.0103	0.0734	0.0087	0.3610	0.1637	0.1973	-1.5163
6	10.07	-0.00	1.0896	-1.3607	0.0127	-0.0093	-0.0059	0.3927	0.1876	0.2050	-1.2488
7	12.13	-0.01	1.2609	-1.4421	0.0015	0.0074	0.0092	0.3930	0.2286	0.1645	-1.1258
8	14.16	-0.00	1.5463	-1.6789	-0.0053	0.0251	0.0022	0.4078	0.2704	0.1374	-1.0858
9	16.18	-0.00	1.8337	-1.8833	-0.0108	0.0490	0.0046	0.4172	0.2986	0.1186	-1.0271
10	17.19	-0.00	1.9916	-1.9679	0.0061	0.0374	0.0056	0.4272	0.3186	0.1086	-0.9881
11	18.21	-0.00	2.1368	-2.0056	0.0063	0.0414	0.0051	0.4215	0.3246	0.0969	-0.9386
12	19.23	-0.00	2.3070	-2.0464	0.0133	0.0320	0.0044	0.4226	0.3310	0.0916	-0.8878
13	20.27	-0.01	2.5087	-2.0540	0.0243	0.0271	0.0051	0.4235	0.3357	0.0879	-0.8188
14	21.30	-0.01	2.6974	-1.9831	0.0205	0.0303	0.0023	0.4216	0.3655	0.0561	-0.7352
15	22.36	-0.01	2.8646	-1.8159	0.0298	0.0111	0.0040	0.4141	0.3821	0.0320	-0.6339
16	23.40	-0.01	3.0810	-1.6334	0.0449	-0.0154	0.0086	0.4161	0.3882	0.0279	-0.5303
17	24.45	-0.01	3.2938	-1.4483	0.0479	-0.0149	0.0051	0.4127	0.3996	0.0131	-0.4397
18	25.52	-0.01	3.5358	-1.2703	0.0728	-0.0346	0.0127	0.4141	0.3925	0.0216	-0.3592
19	26.57	-0.01	3.7549	-1.0240	0.1080	-0.0779	0.0252	0.4164	0.3798	0.0367	-0.2727
20	27.66	-0.01	4.0777	-0.7022	0.1241	-0.0721	0.0266	0.4153	0.3690	0.0463	-0.1722
21	28.72	-0.01	4.4155	-0.4345	0.1299	-0.1378	0.0271	0.4100	0.3657	0.0442	-0.0984
22	29.80	-0.01	4.7200	-0.2134	0.2133	-0.2775	0.0502	0.4108	0.3746	0.0363	-0.0452
23	30.85	-0.01	4.9689	-0.0333	0.2175	-0.2587	0.0441	0.4050	0.3831	0.0218	-0.0067
24	0.00	-0.00	-0.0072	0.0288	-0.0010	0.0182	0.0226	0.3229	0.1475	0.1754	-3.9937

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	90	1.10	2.3	0.0	B4W0F21	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	0.00	-0.00	-0.0094	0.0471	-0.0202	0.0809	-0.0094	0.4961	0.2738	0.2723	-4.7484
2	2.02	-0.00	0.2342	-0.3911	-0.0194	0.0794	-0.0108	0.4951	0.2161	0.2790	-1.6697
3	2.02	-0.00	0.2358	-0.3836	-0.0158	0.0683	-0.0097	0.4959	0.2065	0.2895	-1.6269
4	4.01	-0.00	0.4750	-0.8040	-0.0108	0.0459	-0.0156	0.4928	0.2149	0.2778	-1.6925
5	6.03	-0.00	0.7144	-1.2041	-0.0094	0.0447	-0.0130	0.5019	0.1985	0.3034	-1.6855
6	8.04	-0.00	0.9640	-1.5489	-0.0099	0.0538	-0.0119	0.5158	0.1997	0.3162	-1.6067
7	10.08	-0.00	1.2132	-1.8089	-0.0116	0.0615	-0.0078	0.5169	0.2093	0.3075	-1.4910
8	12.09	-0.00	1.4654	-1.9800	-0.0236	0.0744	-0.0041	0.5109	0.2181	0.2928	-1.3503
9	14.13	-0.00	1.6538	-1.7568	-0.0196	0.0843	-0.0071	0.5237	0.2311	0.2926	-1.0623
10	16.22	-0.01	1.9267	-1.7063	-0.0177	0.1132	-0.0068	0.5273	0.2591	0.2681	-0.8866
11	17.21	-0.01	2.1002	-1.7878	-0.0117	0.1115	-0.0089	0.5267	0.2711	0.2556	-0.8513
12	18.25	-0.01	2.2992	-1.8779	0.0038	0.0896	-0.0113	0.5262	0.2814	0.2449	-0.8167
13	19.31	-0.01	2.4777	-1.8907	0.0066	0.0850	-0.0137	0.5216	0.2883	0.2333	-0.7631
14	20.36	-0.01	2.7450	-1.9154	0.0257	0.0540	-0.0136	0.5173	0.2488	0.2285	-0.6978
15	21.39	-0.01	2.9660	-1.9066	0.0453	-0.0049	-0.0047	0.5136	0.2922	0.2214	-0.6428
16	22.44	-0.01	3.2336	-1.7938	0.0386	0.0224	-0.0076	0.5064	0.2898	0.2165	-0.5547
17	23.52	-0.01	3.5071	-1.6833	0.0578	-0.0090	-0.0020	0.5009	0.2887	0.2122	-0.4809
18	24.55	-0.01	3.7862	-1.5602	0.0780	-0.0471	0.0050	0.4953	0.2905	0.2048	-0.4121
19	25.63	-0.01	4.1054	-1.3867	0.0779	-0.0387	0.0000	0.4875	0.2870	0.2005	-0.3377
20	26.70	-0.01	4.4776	-1.3212	0.0506	0.0111	-0.0092	0.4806	0.2906	0.1900	-0.2951
21	27.75	-0.01	4.8026	-1.2998	0.0745	-0.0290	-0.0051	0.4788	0.2971	0.1818	-0.2786
22	28.83	-0.01	5.0999	-1.2321	0.0987	-0.1017	-0.0059	0.4763	0.2981	0.1783	-0.2418
23	29.90	-0.01	5.3381	-1.0982	0.0929	-0.0634	-0.0190	0.4788	0.3036	0.1752	-0.2057
24	30.95	-0.01	5.5469	-0.8837	0.1407	-0.1848	-0.0246	0.4757	0.3103	0.1654	-0.1593

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	91	1.20	2.3	0.0	B4B0F21	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	0.01	-0.00	-0.0058	0.1302	-0.0019	0.0149	-0.0199	0.5058	0.1876	0.3182	-22.2826
2	2.03	-0.00	0.2342	-0.3034	0.0016	0.0087	-0.0212	0.5031	0.1796	0.3235	-1.2702
3	2.03	-0.00	0.2291	-0.2649	0.0006	0.0172	-0.0212	0.5020	0.1829	0.3191	-1.1563
4	4.04	-0.00	0.4543	-0.6038	0.0030	0.0160	-0.0242	0.4982	0.1766	0.3218	-1.3298
5	6.04	-0.00	0.6882	-0.9413	0.0064	0.0023	-0.0249	0.5107	0.1689	0.3418	-1.3678
6	8.07	-0.00	0.9315	-1.2267	0.0049	-0.0036	-0.0242	0.5216	0.1808	0.3409	-1.3168
7	10.09	-0.00	1.1782	-1.4361	0.0085	0.0004	-0.0233	0.5243	0.1907	0.3336	-1.2189
8	12.14	-0.00	1.4471	-1.5795	0.0014	0.0155	-0.0198	0.5206	0.1954	0.3253	-1.0915
9	14.17	-0.00	1.7243	-1.6604	0.0034	0.0262	-0.0250	0.5164	0.1988	0.3176	-0.9629
10	16.25	-0.01	1.9564	-1.2874	0.0163	0.0129	-0.0316	0.5318	0.1993	0.3325	-0.6588
11	17.29	-0.01	2.1334	-1.2659	0.0230	0.0028	-0.0326	0.5345	0.2081	0.3263	-0.5934
12	18.35	-0.01	2.3555	-1.2545	0.0115	0.0300	-0.0321	0.5322	0.2178	0.3144	-0.5326
13	19.41	-0.01	2.6245	-1.2583	0.0053	0.0450	-0.0349	0.5287	0.2239	0.3048	-0.4794
14	20.46	-0.01	2.8941	-1.2319	0.0178	0.0280	-0.0321	0.5222	0.2295	0.2927	-0.4257
15	21.51	-0.01	3.1599	-1.1695	0.0390	-0.0049	-0.0309	0.5175	0.2332	0.2843	-0.3701
16	22.55	-0.01	3.4361	-1.0954	0.0466	-0.0127	-0.0296	0.5122	0.2356	0.2766	-0.3188
17	23.63	-0.01	3.7124	-0.9966	0.0463	-0.0104	-0.0270	0.5074	0.2373	0.2701	-0.2684
18	24.70	-0.01	3.9917	-0.8941	0.0550	-0.0159	-0.0272	0.5029	0.2423	0.2606	-0.2240
19	25.77	-0.01	4.3122	-0.8239	0.0610	-0.0224	-0.0261	0.4993	0.2466	0.2529	-0.1911
20	24.81	-0.01	4.6462	-0.7898	0.0649	-0.0753	-0.0226	0.4987	0.2529	0.2458	-0.1708
21	27.91	-0.01	4.9641	-0.7772	0.1252	-0.1372	-0.0188	0.4944	0.2593	0.2351	-0.1566
22	28.94	-0.01	5.2613	-0.7687	0.1456	-0.1740	-0.0219	0.4900	0.2598	0.2302	-0.1461
23	30.01	-0.01	5.5602	-0.7442	0.1755	-0.2737	-0.0187	0.4880	0.2666	0.2214	-0.1338
24	31.06	-0.01	5.9181	-0.8406	0.2423	-0.4527	-0.0132	0.4874	0.2711	0.2163	-0.1420

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RE/10**6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	92	1.30	2.3	0.0	B4=0F21	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	0.01	-0.00	-0.0255	0.1511	0.0067	-0.0106	-0.0100	0.4809	0.1693	0.3116	-5.9168
2	2.04	-0.00	0.1880	-0.1263	0.0039	0.0091	-0.0072	0.4769	0.1713	0.3057	-0.6704
3	4.01	-0.00	0.3956	-0.3744	0.0042	0.0119	-0.0061	0.4757	0.1705	0.3052	-0.9461
4	6.01	-0.00	0.6143	-0.6184	0.0075	0.0068	-0.0080	0.4859	0.1643	0.3217	-1.0066
5	8.09	-0.00	0.8564	-0.8533	0.0100	0.0066	-0.0100	0.4958	0.1658	0.3300	-0.9963
6	10.09	-0.00	1.1141	-1.0597	0.0117	0.0115	-0.0093	0.5011	0.1717	0.3293	-0.9511
7	11.14	-0.00	1.2516	-1.1448	0.0102	0.0151	-0.0083	0.5025	0.1782	0.3243	-0.9146
8	12.16	-0.00	1.3935	-1.2075	0.0097	0.0191	-0.0060	0.5025	0.1820	0.3205	-0.8665
9	13.18	-0.00	1.5366	-1.2519	0.0063	0.0260	-0.0066	0.5024	0.1858	0.3166	-0.8147
10	14.22	-0.00	1.6928	-1.2816	0.0030	0.0330	-0.0058	0.5019	0.1881	0.3137	-0.7571
11	15.28	-0.00	1.8673	-1.2990	0.0009	0.0387	-0.0066	0.5005	0.1908	0.3097	-0.6960
12	16.29	-0.00	2.0436	-1.3051	0.0017	0.0369	-0.0118	0.4994	0.1958	0.3037	-0.6306
13	17.27	-0.00	2.2472	-1.2874	0.0037	0.0358	-0.0114	0.4971	0.1998	0.2974	-0.5731
14	18.34	-0.01	2.5086	-1.2368	0.0015	0.0571	-0.0070	0.4967	0.2044	0.2923	-0.4922
15	20.47	-0.01	2.9915	-1.0243	0.0274	0.0137	-0.0117	0.4998	0.2126	0.2872	-0.3424
16	22.61	-0.01	3.5290	-0.8502	0.0519	-0.0303	-0.0081	0.5006	0.2253	0.2753	-0.2409
17	22.62	-0.01	3.5409	-0.8239	0.0511	-0.0253	-0.0082	0.4992	0.2249	0.2743	-0.2327
18	24.74	-0.01	4.1328	-0.7996	0.0501	-0.0143	-0.0112	0.4948	0.2320	0.2628	-0.1935
19	25.82	-0.01	4.4480	-0.7853	0.0484	-0.0150	-0.0114	0.4950	0.2377	0.2573	-0.1766
20	26.86	-0.01	4.7881	-0.8245	0.0556	-0.0306	-0.0074	0.4946	0.2430	0.2516	-0.1722
21	27.90	-0.01	5.1120	-0.8861	0.0762	-0.0673	-0.0063	0.4935	0.2477	0.2458	-0.1737
22	28.96	-0.01	5.4554	-0.9715	0.0741	-0.0413	-0.0131	0.4966	0.2531	0.2435	-0.1781
23	30.04	-0.01	5.7771	-1.0702	0.0937	-0.0792	-0.0133	0.4999	0.2581	0.2418	-0.1852
24	31.08	-0.01	6.1311	-1.2337	0.1167	-0.1337	-0.0094	0.5034	0.2644	0.2390	-0.2012

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	97	0.60	2.3	0.0	B4W0F35	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	0.00	-0.00	0.0245	-0.0347	-0.0191	0.0747	-0.0628	0.2877	0.0870	0.2007	-1.4153
2	1.97	-0.00	0.5670	-1.5260	-0.0159	0.0731	-0.0620	0.3049	0.0823	0.2226	-2.6918
3	3.96	-0.00	1.0940	-3.0515	-0.0177	0.0873	-0.0631	0.3170	0.0856	0.2314	-2.7893
4	5.95	-0.01	1.7728	-4.8884	-0.0130	0.0869	-0.0717	0.3417	0.0888	0.2529	-2.7577
5	7.90	-0.01	2.4494	-6.7514	-0.0095	0.0875	-0.0766	0.3845	0.0957	0.2888	-2.7564
6	9.89	-0.01	3.1415	-8.6936	-0.0057	0.0736	-0.0759	0.4199	0.1058	0.3140	-2.7673
8	13.85	-0.01	4.5389	-12.3781	0.0018	0.0403	-0.0639	0.4771	0.1201	0.3571	-2.7271
9	15.79	-0.01	5.2344	-13.9944	0.0103	0.0390	-0.0690	0.4879	0.1307	0.3572	-2.6735
10	16.85	-0.01	5.4348	-14.3068	-0.0445	0.2540	0.0268	0.4852	0.1375	0.3478	-2.6324
11	17.84	-0.01	5.6085	-14.5287	0.0173	0.0356	-0.0759	0.5131	0.1287	0.3844	-2.5905
12	17.84	-0.01	5.6559	-14.6643	0.0200	0.0300	-0.0747	0.4871	0.1769	0.3102	-2.5927
13	18.83	-0.01	5.8525	-14.8991	0.0349	0.0215	-0.0869	0.5053	0.1698	0.3355	-2.5458
14	19.88	-0.02	6.0549	-15.0560	0.0259	0.0969	-0.0835	0.4908	0.1826	0.3082	-2.4866
15	20.90	-0.02	6.3010	-15.2971	0.0219	0.1364	-0.0807	0.4825	0.1934	0.2891	-2.4277
16	21.91	-0.02	6.4075	-15.1456	0.0147	0.1421	-0.0585	0.4718	0.1919	0.2799	-2.3637
17	22.97	-0.02	6.6403	-15.3604	0.0021	0.2590	0.0031	0.4958	0.2143	0.2815	-2.3132
18	23.97	-0.02	6.7647	-15.3216	-0.0476	0.4799	0.0583	0.5012	0.2320	0.2692	-2.2649
19	24.95	-0.02	6.9439	-15.4347	-0.0028	0.4182	0.1046	0.4890	0.2502	0.2389	-2.2228
20	26.00	-0.02	7.0832	-15.3650	-0.0538	0.6761	0.1605	0.5036	0.2680	0.2356	-2.1692
21	26.00	-0.03	7.1176	-15.4330	-0.0690	0.7157	0.1652	0.5001	0.2905	0.2095	-2.1683
22	27.01	-0.03	7.2902	-15.4767	0.0023	0.6262	0.1551	0.4925	0.3114	0.1811	-2.1229
23	28.03	-0.03	7.4928	-15.5572	0.0601	0.5844	0.1456	0.4664	0.3131	0.1533	-2.0763
24	28.03	-0.03	7.4943	-15.5559	0.0165	0.5902	0.1489	0.4511	0.3321	0.1190	-2.0757
25	28.02	-0.03	7.5216	-15.6658	0.0472	0.5268	0.1498	0.4305	0.3438	0.0868	-2.0828
26	29.06	-0.04	7.6984	-15.7393	0.1013	0.6543	0.1906	0.4807	0.3437	0.1370	-2.0445
27	30.13	-0.04	7.9330	-15.8593	0.1565	0.4224	0.1288	0.4112	0.3547	0.0564	-1.9992
28	19.89	-0.01	4.0008	-14.8135	0.0339	0.0859	-0.0546	0.4389	0.2185	0.2203	-2.4686
29	19.89	-0.02	6.0106	-14.8636	0.0353	0.1057	-0.0563	0.4405	0.2009	0.2395	-2.4729
30	9.86	-0.00	3.2193	-9.1135	0.0239	-0.0386	-0.0505	0.3384	0.1002	0.2382	-2.8309
31	-0.00	0.00	0.0624	-0.1830	0.0057	-0.0241	-0.0351	0.2648	0.0855	0.1792	-2.9318

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	9A	0.85	2.3	0.0	B4W0F35	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-0.00	0.00	0.0555	-0.1658	0.0055	-0.0253	-0.0323	0.2769	0.0893	0.1875	-2.9876
2	1.96	-0.00	0.2400	-1.7268	0.0140	-0.0304	-0.0352	0.2896	0.0826	0.2069	-2.6982
3	3.93	-0.00	1.2062	-3.4263	0.0155	-0.0263	-0.0379	0.3005	0.0894	0.2111	-2.8359
4	5.93	-0.00	1.6756	-5.2876	0.0180	-0.0171	-0.0443	0.3199	0.0986	0.2213	-2.8198
5	5.93	-0.00	1.8751	-5.3240	0.0180	-0.0198	-0.0439	0.3188	0.0931	0.2258	-2.8393
6	7.87	-0.00	2.5665	-7.3440	0.0209	-0.0224	-0.0502	0.3454	0.1023	0.2431	-2.8615
7	7.87	-0.00	2.5749	-7.3772	0.0210	-0.0226	-0.0503	0.3421	0.1089	0.2332	-2.8651
8	7.87	-0.00	2.5711	-7.3567	0.0210	-0.0206	-0.0500	0.3393	0.1102	0.2291	-2.8613
9	9.87	-0.00	3.2775	-9.3321	0.0263	-0.0347	-0.0494	0.3826	0.1133	0.2693	-2.8473
10	11.85	-0.00	3.9833	-11.2297	0.0314	-0.0427	-0.0438	0.4221	0.1164	0.3056	-2.8192
11	13.76	-0.00	4.6757	-13.0746	0.0365	-0.0781	-0.0465	0.4297	0.1277	0.3020	-2.7963
12	15.80	-0.00	5.2912	-14.3896	0.0414	-0.0714	-0.0517	0.4654	0.1384	0.3269	-2.7195
13	16.81	-0.01	5.4422	-14.4161	-0.0396	0.2672	0.0792	0.4635	0.1328	0.3306	-2.6490
14	17.82	-0.01	5.5604	-14.4175	0.0587	-0.0846	-0.0611	0.4788	0.1449	0.3339	-2.5836
15	18.82	-0.01	5.7981	-14.6748	0.0609	-0.0759	-0.0566	0.4806	0.1663	0.3144	-2.5310
16	19.87	-0.01	5.9610	-14.6936	0.0462	0.0611	-0.0448	0.4408	0.1721	0.2687	-2.4650
17	20.87	-0.02	6.1642	-14.7665	0.0181	0.1757	-0.0215	0.4259	0.1875	0.2384	-2.3988
18	21.90	-0.02	6.3236	-14.8369	0.0164	0.2320	0.0296	0.4461	0.2053	0.2408	-2.3463
19	22.98	-0.02	6.4978	-14.9119	-0.0164	0.4252	0.0854	0.4666	0.2306	0.2360	-2.2949
20	23.97	-0.02	6.6711	-14.9662	-0.0486	0.4735	0.1217	0.4788	0.2379	0.2409	-2.2434
21	25.01	-0.02	6.8784	-15.1192	-0.0083	0.4127	0.1357	0.4860	0.2639	0.2221	-2.1981
22	25.01	-0.02	6.8866	-15.0444	-0.0247	0.4850	0.1373	0.4764	0.2716	0.2048	-2.1910
23	25.99	-0.03	7.0321	-15.0919	-0.0590	0.7624	0.1830	0.4884	0.2840	0.2044	-2.1461
24	27.05	-0.04	7.2209	-15.1829	-0.0636	0.9488	0.2234	0.4944	0.3080	0.1864	-2.1026
25	28.07	-0.04	7.4217	-15.2325	0.0087	0.8264	0.2005	0.4777	0.3169	0.1607	-2.0524
26	29.08	-0.06	7.6694	-15.3685	0.0443	1.0482	0.2418	0.5038	0.3504	0.1534	-2.0039
27	30.13	-0.06	7.8803	-15.4000	0.2100	0.9700	0.3205	0.4989	0.3715	0.1273	-1.9542
28	19.88	-0.01	5.9022	-14.4518	0.0079	0.1172	-0.0376	0.4174	0.2159	0.2015	-2.4485
29	9.82	-0.00	3.2916	-9.4236	0.0302	-0.0535	-0.0420	0.3411	0.1367	0.2044	-2.8638
30	-0.00	0.00	0.0703	-0.2003	0.0093	-0.0266	-0.0252	0.2662	0.0908	0.1754	-2.8476

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RE10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	103	1.10	2.3	0.0	B4d0F35	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	0.00	-0.00	-0.0031	0.0301	-0.0179	0.0437	-0.0446	0.5749	0.1430	0.4320	-9.6973
2	-0.00	-0.01	-0.0036	0.0028	-0.0301	0.1240	-0.0475	0.5805	0.1390	0.4415	-0.7846
3	0.00	-0.00	0.0008	-0.0002	-0.0244	0.0634	-0.0481	0.5750	0.1750	0.4000	-0.2246
4	1.97	-0.01	0.5718	-1.6762	-0.0267	0.1117	-0.0483	0.5851	0.1643	0.4208	-2.9316
5	3.90	-0.00	1.1737	-3.4265	-0.0146	0.0753	-0.0498	0.5842	0.1714	0.4128	-2.9194
6	3.90	-0.01	1.1819	-3.4516	-0.0211	0.0911	-0.0493	0.5868	0.1619	0.4249	-2.9204
7	5.87	-0.01	1.8024	-5.2414	-0.0198	0.1156	-0.0537	0.6075	0.1572	0.4503	-2.9080
8	7.85	-0.01	2.4318	-7.0243	-0.0118	0.0950	-0.0532	0.6394	0.1695	0.4699	-2.8885
9	9.81	-0.01	3.2004	-9.1222	-0.0023	0.0561	-0.0483	0.6908	0.2263	0.4646	-2.8503
10	9.81	-0.01	3.1954	-9.1205	0.0042	0.0403	-0.0504	0.6864	0.2184	0.4680	-2.8543
11	11.82	-0.01	3.8408	-10.7263	0.0068	0.0202	-0.0446	0.7407	0.2192	0.5210	-2.7927
12	13.82	-0.00	4.4643	-11.9347	0.0101	0.0042	-0.0449	0.7516	0.2218	0.5298	-2.7098
13	15.84	-0.01	4.7078	-11.9433	0.0185	-0.0030	-0.0537	0.7234	0.2353	0.4880	-2.5369
14	16.86	-0.01	4.9815	-11.9507	0.0018	0.0541	-0.0605	0.6899	0.2455	0.4444	-2.4481
15	17.91	-0.01	5.0916	-12.0660	0.0094	0.0756	-0.0565	0.6695	0.2419	0.4276	-2.3698
16	18.95	-0.01	5.3285	-12.2644	0.0017	0.1141	-0.0586	0.6736	0.2466	0.4271	-2.3017
17	19.99	-0.02	5.6044	-12.4483	0.0120	0.0955	-0.0657	0.7791	0.2468	0.5324	-2.2212
18	21.04	-0.02	5.6902	-12.6221	0.0236	0.0870	-0.0697	0.8109	0.2498	0.5610	-2.1429
19	22.06	-0.02	6.2143	-12.4186	0.0467	0.0402	-0.0797	0.7025	0.2535	0.4490	-2.0628
20	23.08	-0.02	6.5119	-12.9445	0.0218	0.0772	-0.0730	0.6652	0.2595	0.4057	-1.9878
21	24.14	-0.02	6.8364	-13.1314	0.0693	-0.0239	-0.0792	0.6487	0.2651	0.3816	-1.9208
22	25.22	-0.02	7.1720	-13.2701	0.0590	-0.0211	-0.0711	0.6307	0.2879	0.3428	-1.8503
23	25.23	-0.02	7.1457	-13.0847	0.0957	-0.0959	-0.0707	0.6339	0.3016	0.3324	-1.8311
24	26.29	-0.02	7.5401	-13.2464	0.1144	-0.0909	-0.0583	0.6700	0.3042	0.3658	-1.7568
25	27.35	-0.02	7.9543	-13.4383	0.1441	-0.1315	-0.0378	0.6848	0.3070	0.3778	-1.6894
26	28.43	-0.01	8.4065	-13.6691	0.1648	-0.2384	-0.0311	0.5928	0.3110	0.2818	-1.6260
27	29.46	-0.02	8.7627	-13.8608	0.0755	-0.0357	-0.0803	0.5841	0.3107	0.2733	-1.5818
28	30.51	-0.01	9.1018	-14.0142	0.1413	-0.2077	-0.0430	0.5650	0.3111	0.2539	-1.5397
29	20.00	-0.01	5.5395	-12.0969	0.0503	-0.1010	-0.0650	0.2993	0.3089	-0.0096	-2.1838
30	9.79	-0.01	3.1878	-9.1328	-0.0017	0.0401	-0.0438	0.6605	0.2639	0.3966	-2.8648
31	0.00	-0.00	0.0012	0.0129	-0.0128	0.0304	-0.0327	0.5958	0.2158	0.3800	10.8001

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	104	1.20	2.3	0.0	84=0F35	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	0.01	0.00	-0.0319	0.1314	0.0185	-0.0897	-0.0331	0.6016	0.1963	0.4053	-4.1314
2	1.94	0.00	0.5352	-1.5050	0.0237	-0.1028	-0.0349	0.6078	0.1972	0.4106	-2.7962
3	3.91	0.00	1.1480	-3.2766	0.0277	-0.1046	-0.0340	0.6109	0.1976	0.4133	-2.8542
4	5.87	0.00	1.7695	-5.0697	0.0308	-0.1056	-0.0342	0.6212	0.1916	0.4296	-2.8651
5	7.87	0.00	2.4106	-6.8863	0.0354	-0.1023	-0.0375	0.6449	0.1955	0.4495	-2.8484
6	9.83	0.00	3.0534	-8.5638	0.0406	-0.1083	-0.0399	0.6750	0.2011	0.4739	-2.8047
7	9.83	0.00	3.0445	-8.5389	0.0424	-0.1042	-0.0383	0.6658	0.1961	0.4697	-2.8047
8	11.78	0.00	3.6608	-10.0295	0.0494	-0.1256	-0.0396	0.7118	0.1994	0.5124	-2.7397
9	13.80	0.00	4.2615	-11.2453	0.0403	-0.1190	-0.0354	0.7307	0.1948	0.5359	-2.6513
10	15.88	0.00	4.8354	-11.5050	0.0362	-0.1241	-0.0296	0.7154	0.2015	0.5139	-2.4820
11	16.89	-0.00	4.8337	-11.5914	0.0373	-0.0909	-0.0311	0.6922	0.2052	0.4869	-2.3980
12	17.93	-0.00	5.0778	-11.7352	0.0548	-0.1358	-0.0377	0.6830	0.2171	0.4659	-2.3111
13	19.00	-0.00	5.3566	-11.8737	0.0446	-0.1152	-0.0411	0.6813	0.2233	0.4579	-2.2166
14	20.04	-0.00	5.6612	-12.0120	0.0421	-0.0780	-0.0484	0.6691	0.2253	0.4438	-2.1218
15	21.07	-0.01	5.9699	-12.1606	0.0650	-0.1185	-0.0551	0.6512	0.2287	0.4226	-2.0383
16	22.10	-0.01	6.2892	-12.3188	0.0592	-0.1151	-0.0546	0.6411	0.2327	0.4084	-1.9587
17	23.16	-0.01	6.6396	-12.5171	0.0924	-0.1652	-0.0573	0.6271	0.2393	0.3878	-1.8852
18	24.21	-0.01	6.9978	-12.6907	0.1061	-0.1816	-0.0583	0.6313	0.2466	0.3847	-1.8213
19	25.28	-0.01	7.3035	-12.8384	0.0997	-0.1623	-0.0545	0.6175	0.2528	0.3647	-1.7578
20	26.31	-0.01	7.6763	-13.0373	0.1536	-0.2456	-0.0548	0.6509	0.2585	0.3925	-1.6979
21	27.42	-0.01	8.0416	-13.2482	0.1871	-0.3783	-0.0459	0.6372	0.2483	0.3889	-1.6373
22	28.46	-0.01	8.4572	-13.4470	0.2036	-0.3672	-0.0295	0.6193	0.2836	0.3357	-1.5908
23	29.51	-0.01	8.7903	-13.5844	0.1985	-0.4032	-0.0450	0.6185	0.2897	0.3288	-1.5454
24	30.56	-0.00	9.1809	-13.8066	0.2215	-0.4935	-0.0284	0.5741	0.2974	0.2767	-1.5039
25	20.01	-0.00	5.6324	-11.6991	0.0606	-0.1434	-0.0481	0.5706	0.2879	0.2827	-2.1126
26	9.91	0.00	3.0450	-8.5769	0.0502	-0.1210	-0.0359	0.6420	0.2388	0.4032	-2.8167
27	0.01	0.00	-0.0281	0.1327	0.0176	-0.0831	-0.0302	0.5924	0.1995	0.3929	-4.7288

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	99	0.92	2.3	0.0	B4=0F35	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-0.00	0.00	0.0637	-0.1848	0.0087	-0.0250	-0.0221	0.3007	0.0666	0.2341	-2.8993
2	2.00	0.00	0.6402	-1.8285	0.0161	-0.0376	-0.0214	0.3133	0.0744	0.2388	-2.8560
3	3.94	-0.00	1.2621	-3.6715	0.0163	-0.0307	-0.0237	0.3177	0.0814	0.2362	-2.9091
4	5.90	-0.00	1.9372	-5.6477	0.0163	-0.0247	-0.0308	0.3384	0.0891	0.2493	-2.9154
5	7.82	-0.00	2.6717	-7.8837	0.0245	-0.0374	-0.0383	0.3647	0.1026	0.2621	-2.9508
6	7.82	-0.00	2.6724	-7.9014	0.0235	-0.0306	-0.0392	0.3724	0.0675	0.2849	-2.9567
7	9.80	-0.00	3.4010	-10.0184	0.0295	-0.0501	-0.0402	0.4143	0.1026	0.3117	-2.9457
8	11.80	-0.00	4.1232	-12.0006	0.0329	-0.0809	-0.0362	0.4533	0.1119	0.3414	-2.9105
9	13.76	-0.00	4.8832	-13.2405	0.0383	-0.0996	-0.0380	0.4672	0.1217	0.3454	-2.8272
10	15.78	-0.00	5.0111	-13.4322	0.0065	-0.0111	-0.0480	0.3957	0.1251	0.2706	-2.6805
11	16.81	0.00	5.1724	-13.4771	0.0632	-0.1171	0.0214	0.4201	0.1294	0.2907	-2.6056
12	17.85	-0.00	5.3530	-13.5902	0.0070	0.1175	0.0902	0.4115	0.1468	0.2646	-2.5388
13	18.88	0.00	5.5247	-13.6042	0.0414	-0.1149	-0.0207	0.4362	0.1709	0.2653	-2.4633
14	19.87	-0.01	5.7096	-13.7041	0.0562	-0.0485	-0.0089	0.4564	0.1883	0.2681	-2.4011
15	20.92	-0.02	5.9086	-13.8389	-0.0006	0.2441	0.0098	0.4396	0.2057	0.2339	-2.3422
16	21.94	-0.02	6.1006	-13.9223	-0.0513	0.4615	0.0390	0.4498	0.2240	0.2258	-2.2821
17	22.97	-0.03	6.2567	-13.9035	-0.0274	0.4732	0.0694	0.4817	0.2343	0.2474	-2.2222
18	23.94	-0.02	6.4865	-14.0857	-0.0160	0.4207	0.1001	0.4719	0.2595	0.2123	-2.1715
19	25.04	-0.03	6.7082	-14.1582	-0.0252	0.5944	0.1027	0.4663	0.2675	0.1987	-2.1106
20	26.06	-0.03	6.9351	-14.2470	0.0167	0.5488	0.1002	0.4945	0.2850	0.2095	-2.0563
21	27.10	-0.04	7.2362	-14.4146	0.0607	0.5700	0.1414	0.4507	0.2996	0.1512	-1.9928
22	28.15	-0.02	7.5673	-14.5288	0.0736	0.3455	0.1443	0.4292	0.3044	0.1248	-1.9199
23	29.23	-0.01	7.9285	-14.6028	0.0553	0.1669	0.0946	0.4178	0.3070	0.1109	-1.8418
24	29.22	-0.01	7.9306	-14.6838	0.0762	0.0693	0.0897	0.4196	0.3210	0.0987	-1.8515
25	30.30	-0.01	8.3378	-14.8429	0.0878	0.0426	0.0377	0.3948	0.3230	0.0718	-1.7802
26	19 90	-0.03	5.6652	-13.5267	-0.0736	0.4959	0.0204	0.3941	0.2465	0.1475	-2.3877
27	9.80	-0.00	3.4366	-10.1484	0.0312	-0.0510	-0.0382	0.3775	0.1364	0.2411	-2.9538
28	-0.00	-0.00	0.0655	-0.1827	0.0087	-0.0171	-0.0202	0.2937	0.0915	0.2022	-2.7918
29	-0.00	0.00	0.0633	-0.1756	0.0098	-0.0226	-0.0187	0.2934	0.0782	0.2152	-2.7778

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RE10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	100	0.98	2.3	0.0	B4B0F35	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-0.00	0.00	0.0613	-0.1774	0.0096	-0.0294	-0.0295	0.4100	0.0678	0.3422	-2.8967
2	-0.00	0.00	0.0615	-0.1781	0.0096	-0.0349	-0.0297	0.4167	0.0974	0.3194	-2.8944
3	1.95	0.00	0.6299	-1.8066	0.0221	-0.0537	-0.0321	0.4268	0.1090	0.3178	-2.8727
4	3.91	-0.00	1.2514	-3.6288	0.0227	-0.0457	-0.0360	0.4251	0.1172	0.3079	-2.8998
5	5.88	-0.00	1.9159	-5.5870	0.0259	-0.0382	-0.0410	0.4545	0.1153	0.3392	-2.9161
6	7.85	-0.00	2.6089	-7.6086	0.0251	-0.0362	-0.0432	0.4869	0.1280	0.3589	-2.9163
7	9.81	-0.00	3.2848	-9.5206	0.0282	-0.0509	-0.0406	0.5240	0.1367	0.3873	-2.8984
8	11.78	-0.00	3.9797	-11.3789	0.0291	-0.0690	-0.0359	0.5612	0.1520	0.4092	-2.8592
9	11.78	-0.00	3.9766	-11.3717	0.0303	-0.0706	-0.0341	0.5602	0.1515	0.4088	-2.8597
10	13.73	-0.00	4.5531	-12.7321	0.0341	-0.0554	-0.0367	0.5704	0.1594	0.4110	-2.7963
11	15.83	-0.01	4.8829	-12.9332	0.0309	-0.0769	-0.0402	0.5121	0.1694	0.3427	-2.6488
12	16.81	-0.01	5.0594	-13.0856	0.0446	-0.0471	-0.0537	0.5212	0.1863	0.3349	-2.5813
13	16.81	-0.01	5.0613	-12.9719	0.0476	-0.0477	-0.0548	0.5072	0.1751	0.3321	-2.5731
14	17.88	-0.01	5.2581	-13.1305	0.0530	-0.0459	-0.0604	0.5555	0.1921	0.3634	-2.4972
15	18.92	-0.01	5.4409	-13.1745	0.0517	-0.0043	-0.0664	0.4614	0.2014	0.2600	-2.4214
16	19.93	-0.00	5.6655	-13.2561	0.0405	-0.0757	0.0567	0.5642	0.2097	0.3545	-2.3398
17	20.97	-0.01	5.8836	-13.4034	0.0927	-0.0667	0.0361	0.6045	0.2299	0.3745	-2.2781
18	22.04	-0.01	6.1651	-13.4793	0.0638	0.0007	-0.0663	0.5555	0.2349	0.3206	-2.1864
19	23.02	-0.00	6.4224	-13.6193	0.0560	-0.0342	0.0236	0.5630	0.2481	0.3149	-2.1204
20	24.08	-0.00	6.7090	-13.7658	0.0769	-0.0766	0.0716	0.4923	0.2599	0.2324	-2.0492
21	25.11	-0.01	7.0071	-13.8804	0.0946	0.0105	0.1082	0.4568	0.2740	0.1808	-1.9809
22	26.14	-0.00	7.3356	-14.0184	0.0999	0.0441	0.1692	0.4644	0.2840	0.1804	-1.9118
23	27.20	0.00	7.7377	-14.1953	0.1651	-0.1014	0.2653	0.4867	0.2939	0.1928	-1.8346
24	28.29	-0.00	8.1480	-14.3988	0.1707	-0.0315	0.2238	0.4325	0.3040	0.1285	-1.7672
25	29.35	0.00	8.6157	-14.5552	0.1144	-0.1826	0.0575	0.4333	0.2984	0.1349	-1.6894
26	30.44	0.01	9.0668	-14.7945	0.1459	-0.2051	0.1291	0.3943	0.3042	0.0901	-1.6317
27	19.93	-0.00	5.6528	-13.0876	0.0964	-0.1256	0.0574	0.0777	0.2933	-0.2157	-2.3152
28	9.79	-0.00	3.3181	-9.6564	0.0298	-0.0479	-0.0390	0.4887	0.2036	0.2851	-2.9096
29	-0.00	0.00	0.0677	-0.1903	0.0127	-0.0304	-0.0246	0.4089	0.1036	0.3053	-2.8132

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	105	1.30	2.3	0.0	B4W0F35	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	0.01	0.00	-0.0507	0.2176	0.0030	-0.0530	-0.0211	0.5696	0.1949	0.3747	-4.2947
2	1.98	0.00	0.4932	-1.2642	0.0095	-0.0514	-0.0253	0.5754	0.1994	0.3761	-2.5631
3	3.94	0.00	1.0493	-2.8861	0.0122	-0.0511	-0.0283	0.5742	0.1968	0.3774	-2.7505
4	5.91	0.00	1.6358	-4.4845	0.0123	-0.0373	-0.0275	0.5888	0.1960	0.3928	-2.7415
5	7.88	-0.00	2.2488	-6.1831	0.0238	-0.0497	-0.0283	0.6081	0.1929	0.4151	-2.7495
6	9.86	-0.00	2.8568	-7.7424	0.0323	-0.0584	-0.0279	0.6391	0.1958	0.4433	-2.7102
7	11.84	-0.00	3.4576	-9.1587	0.0366	-0.0779	-0.0292	0.6667	0.1963	0.4704	-2.6489
8	13.85	0.00	4.0778	-10.4643	0.0362	-0.0986	-0.0281	0.6992	0.1979	0.5013	-2.5662
9	15.89	0.00	4.6060	-11.2233	0.0446	-0.1208	-0.0289	0.7029	0.2026	0.5003	-2.4367
10	16.92	0.00	4.8521	-11.3639	0.0431	-0.1196	-0.0187	0.6790	0.2097	0.4693	-2.3421
11	17.96	0.00	5.1375	-11.5212	0.0419	-0.1233	-0.0181	0.6676	0.2157	0.4520	-2.2426
12	17.97	0.00	5.1219	-11.4271	0.0409	-0.1018	-0.0151	0.6528	0.2261	0.4267	-2.2310
13	19.02	0.00	5.4004	-11.5012	0.0535	-0.1469	-0.0256	0.6390	0.2345	0.4045	-2.1297
14	20.07	-0.00	5.7221	-11.7033	0.0455	-0.1102	-0.0269	0.6519	0.2348	0.4171	-2.0453
15	20.07	-0.00	5.7198	-11.6362	0.0436	-0.1071	-0.0247	0.6093	0.2411	0.3682	-2.0344
16	21.12	-0.00	6.0704	-11.9236	0.0561	-0.1196	-0.0340	0.6362	0.2432	0.3930	-1.9642
17	21.12	-0.00	6.0528	-11.8280	0.0647	-0.1447	-0.0341	0.6399	0.2517	0.3882	-1.9541
18	22.18	-0.01	6.3530	-11.8706	0.0615	-0.0988	-0.0313	0.6035	0.2592	0.3443	-1.8685
19	22.18	-0.00	6.3691	-11.8948	0.0320	-0.0814	-0.0343	0.6222	0.2583	0.3640	-1.8676
20	23.23	-0.00	6.7010	-12.1005	0.0754	-0.1484	-0.0382	0.6182	0.2581	0.3601	-1.8058
21	24.29	-0.01	7.0552	-12.3074	0.0792	-0.1067	-0.0414	0.6346	0.2607	0.3738	-1.7444
22	25.33	-0.01	7.4131	-12.5212	0.1365	-0.2243	-0.0432	0.6125	0.2631	0.3494	-1.6891
23	25.34	-0.01	7.3932	-12.4385	0.0868	-0.1337	-0.0384	0.5866	0.2713	0.3153	-1.6824
24	26.42	-0.01	7.7487	-12.6376	0.1163	-0.1880	-0.0315	0.6123	0.2814	0.3309	-1.6188
25	27.45	-0.01	8.1247	-12.8005	0.1405	-0.2480	-0.0196	0.6267	0.2815	0.3451	-1.5755
26	28.53	-0.00	8.4782	-12.8082	0.1532	-0.3082	-0.0184	0.6014	0.3174	0.2841	-1.5107
27	29.59	-0.00	8.8488	-13.0259	0.1752	-0.3721	-0.0133	0.6124	0.3189	0.2935	-1.4721
28	30.65	-0.01	9.1985	-13.1426	0.1549	-0.2820	-0.0218	0.6196	0.3239	0.2958	-1.4288
29	20.08	0.00	5.6941	-11.4762	0.0447	-0.1241	-0.0211	0.5711	0.3084	0.2627	-2.0155
30	9.85	-0.00	2.8533	-7.7545	0.0267	-0.0600	-0.0262	0.6072	0.2333	0.3739	-2.7177
31	0.01	0.00	-0.0450	0.1900	0.0003	-0.0382	-0.0169	0.5623	0.2056	0.3566	-4.2211

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	106	0.65	2.3	0.0	64=OF35	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-0.00	0.00	0.0024	-0.0206	-0.0061	0.0002	0.0082	0.2743	0.0844	0.1898	-8.5143
3	1.97	0.00	0.5512	-1.5596	-0.0024	-0.0040	0.0053	0.2871	0.0870	0.2002	-2.8296
4	3.95	0.00	1.1537	-3.2640	0.0025	-0.0090	0.0027	0.2927	0.0930	0.1997	-2.8335
5	5.91	-0.00	1.7940	-5.1092	0.0023	-0.0005	-0.0035	0.3098	0.0929	0.2170	-2.8479
6	7.88	-0.00	2.4944	-7.1446	0.0089	-0.0064	-0.0060	0.3257	0.1032	0.2225	-2.8643
7	9.84	0.00	3.2063	-9.1696	0.0095	-0.0225	-0.0035	0.3478	0.1117	0.2361	-2.8590
8	11.81	0.00	3.9345	-11.1489	0.0138	-0.0455	0.0024	0.3807	0.1144	0.2663	-2.8334
9	13.79	0.00	4.6384	-12.9695	0.0113	-0.0642	0.0116	0.4101	0.1227	0.2874	-2.7961
10	15.79	0.00	5.2247	-14.2520	0.0048	-0.0801	0.0170	0.4253	0.1273	0.2979	-2.7270
11	16.81	0.00	5.4177	-14.4023	0.0139	-0.0782	0.0200	0.3969	0.1297	0.2672	-2.6584
12	17.83	0.00	5.5721	-14.4481	0.0311	-0.1268	-0.0093	0.4550	0.1411	0.3139	-2.5929
13	18.85	0.00	5.7564	-14.5941	0.0256	-0.1109	0.0029	0.4350	0.1567	0.2783	-2.5353
14	19.86	0.00	5.7255	-14.4783	0.0326	-0.1311	0.0009	0.4305	0.1580	0.2725	-2.5287
15	19.86	0.00	5.9248	-14.6162	0.0150	-0.0744	0.0098	0.3913	0.1767	0.2146	-2.4670
16	20.90	-0.00	6.1024	-14.6778	0.0318	-0.0313	0.0047	0.3964	0.1844	0.2120	-2.4052
17	21.93	-0.01	6.2977	-14.7653	0.0674	-0.0827	0.0253	0.3591	0.1971	0.1620	-2.3447
18	22.95	-0.01	6.4674	-14.8387	0.0226	0.1235	0.0582	0.4006	0.2144	0.1862	-2.2944
19	23.97	-0.01	6.4851	-15.0339	0.0431	0.1611	0.1034	0.4190	0.2370	0.1820	-2.2489
20	23.97	-0.01	6.6335	-14.8132	0.0391	0.1326	0.0926	0.4125	0.2338	0.1787	-2.2331
21	25.00	-0.01	6.8310	-14.9349	-0.0194	0.3354	0.1522	0.4353	0.2708	0.1645	-2.1863
22	26.02	-0.02	6.9921	-15.0002	0.0020	0.5496	0.1986	0.4142	0.2885	0.1257	-2.1453
23	27.05	-0.02	7.2322	-15.1269	0.0129	0.5580	0.1858	0.4098	0.3068	0.1031	-2.0916
24	28.08	-0.03	7.4302	-15.1616	0.0544	0.5793	0.1727	0.4001	0.3127	0.0874	-2.0405
25	29.10	-0.04	7.6579	-15.2567	0.1346	0.5238	0.2056	0.3956	0.3280	0.0676	-1.9923
26	30.13	-0.04	7.8517	-15.3575	0.2300	0.5838	0.3351	0.4326	0.3438	0.0888	-1.9559
27	19.89	-0.00	5.8950	-14.4406	-0.0130	0.0837	0.0412	0.3848	0.2596	0.1252	-2.4496
28	9.83	0.00	3.2659	-9.3470	0.0404	-0.1312	0.0099	0.3329	0.1464	0.1865	-2.8773
29	-0.00	0.00	0.0413	-0.1383	0.0160	-0.0807	0.0234	0.2703	0.0981	0.1722	-3.3469

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) [illegible] WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	111	0.80	2.3	0.0	B4=OF34	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-0.00	-0.01	0.0213	-0.0518	-0.0592	0.1949	-0.0738	0.2906	0.0890	0.2017	-2.4336
2	1.98	-0.01	0.5834	-1.5968	-0.0545	0.1884	-0.0730	0.3206	0.0887	0.2319	-2.7371
3	3.95	-0.01	1.2010	-3.3678	-0.0457	0.1745	-0.0819	0.3539	0.0877	0.2662	-2.7872
4	5.91	-0.01	1.9173	-5.5228	-0.0438	0.1661	-0.0918	0.3837	0.0995	0.2842	-2.8805
5	7.86	-0.01	2.5977	-7.6140	-0.0324	0.1265	-0.0946	0.3868	0.1008	0.2860	-2.9318
6	9.82	-0.01	3.2615	-9.5972	-0.0324	0.1322	-0.0860	0.4086	0.1042	0.3043	-2.9426
7	11.82	-0.01	3.7489	-10.8886	-0.0324	0.1251	-0.0873	0.4485	0.1217	0.3268	-2.9045
8	13.82	-0.01	4.0668	-11.8277	-0.0341	0.1219	-0.0806	0.4637	0.1370	0.3267	-2.8086
9	15.83	-0.00	4.3047	-11.5489	-0.0390	0.0902	-0.0693	0.4908	0.1619	0.3289	-2.6829
10	16.87	-0.01	4.3260	-11.3251	-0.0632	0.1857	-0.0356	0.5127	0.1969	0.3158	-2.6179
11	17.89	-0.01	4.4753	-11.4090	-0.0545	0.1901	-0.0526	0.5448	0.2393	0.3055	-2.5493
12	18.91	-0.01	4.5969	-11.4500	-0.0845	0.2795	-0.0482	0.5833	0.2640	0.3193	-2.4897
13	19.92	-0.01	4.7221	-11.4535	-0.0690	0.2743	-0.0603	0.6174	0.3054	0.3119	-2.4255
14	20.94	-0.01	4.8361	-11.4383	-0.0205	0.1009	-0.1032	0.6538	0.3375	0.3163	-2.3652
15	21.96	-0.01	5.0702	-11.6776	-0.0165	0.1048	-0.1141	0.6839	0.3636	0.3203	-2.3032
16	22.97	-0.02	5.2526	-11.8435	-0.0285	0.1780	-0.1106	0.6896	0.4214	0.2682	-2.2642
17	22.97	-0.01	5.2792	-11.9374	-0.0595	0.1752	-0.1272	0.6916	0.4245	0.2671	-2.2612
18	23.99	-0.03	5.5258	-12.3296	-0.0230	0.3066	-0.1365	0.7100	0.4340	0.2760	-2.2313
20	24.99	-0.03	5.8074	-12.8469	-0.0462	0.3341	-0.1530	0.7110	0.4582	0.2528	-2.2122
21	26.00	-0.04	6.1053	-13.3756	-0.0134	0.4066	-0.1796	0.7135	0.4746	0.2390	-2.1908
22	27.00	-0.04	6.3818	-13.9015	0.0347	0.3025	-0.2043	0.7072	0.4889	0.2183	-2.1783
23	28.01	-0.06	6.7414	-14.5330	0.0791	0.4488	-0.2205	0.6985	0.4909	0.2076	-2.1558
24	29.03	-0.07	6.9564	-14.7707	0.1530	0.4034	-0.2398	0.6729	0.4953	0.1776	-2.1227
25	30.05	-0.06	7.1703	-14.9013	0.1324	0.4115	-0.2186	0.6550	0.5026	0.1523	-2.0782
26	19.92	-0.01	4.7741	-11.6361	-0.0674	0.2736	-0.0601	0.5827	0.4159	0.1668	-2.4373
27	9.82	-0.01	3.3278	-9.9003	-0.0353	0.1597	-0.0764	0.2962	0.2278	0.0684	-2.9750
28	-0.01	-0.01	0.0453	-0.2095	-0.0532	0.1904	-0.0655	0.2328	0.1062	0.1266	-4.6282

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	112	0.65	2.3	0.0	B4W0F34	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-0.01	-0.01	0.0336	-0.1621	-0.0576	0.1975	-0.0704	0.2413	0.0882	0.1531	-4.8228
2	1.97	-0.01	0.6228	-1.9007	-0.0479	0.1634	-0.0701	0.2383	0.0886	0.1498	-2.8914
3	3.93	-0.01	1.1074	-3.3197	-0.0446	0.1620	-0.0738	0.2377	0.0880	0.1496	-2.9964
4	5.88	-0.01	2.0016	-5.9679	-0.0390	0.1556	-0.0830	0.2724	0.0868	0.1856	-2.9816
5	7.84	-0.01	2.7174	-8.1526	-0.0369	0.1511	-0.0820	0.3251	0.1040	0.2211	-3.0001
6	9.81	-0.01	3.2966	-9.8099	-0.0355	0.1537	-0.0866	0.3802	0.1062	0.2739	-2.9758
7	10.79	-0.01	3.5766	-10.5736	-0.0346	0.1471	-0.0885	0.3972	0.1150	0.2821	-2.9563
8	11.79	-0.01	3.8135	-11.1940	-0.0311	0.1336	-0.0911	0.4103	0.1207	0.2897	-2.9354
9	13.80	-0.01	4.1439	-11.8836	-0.0360	0.1351	-0.0722	0.4533	0.1350	0.3182	-2.8677
10	15.81	-0.00	4.3878	-12.0263	-0.0350	0.0812	-0.0684	0.4845	0.1654	0.3191	-2.7408
11	16.85	-0.01	4.4784	-11.6766	-0.0646	0.1474	-0.0423	0.5214	0.2104	0.3110	-2.6528
12	17.85	-0.01	4.5969	-11.9281	-0.0820	0.2677	-0.0419	0.5556	0.2385	0.3171	-2.5944
13	18.87	-0.01	4.7336	-11.9746	-0.0943	0.2833	-0.0371	0.5850	0.2765	0.3085	-2.5307
14	19.89	-0.01	4.8602	-11.9353	-0.0767	0.1917	-0.0530	0.6204	0.3075	0.3129	-2.4557
15	19.90	-0.01	4.8588	-11.9541	-0.0812	0.2938	-0.0667	0.6298	0.3253	0.3045	-2.4683
16	20.91	-0.01	4.9894	-11.9627	-0.0035	0.0524	-0.0956	0.6591	0.3499	0.3092	-2.3976
17	21.94	-0.01	5.2032	-12.1514	0.0139	-0.0046	-0.1177	0.6802	0.3773	0.3029	-2.3354
18	22.97	-0.01	5.4156	-12.3805	-0.0292	0.1072	-0.1189	0.6939	0.3999	0.2940	-2.2872
19	23.97	-0.04	5.6754	-12.7783	-0.0420	0.4294	-0.1502	0.7013	0.4162	0.2851	-2.2512
20	24.99	-0.03	5.9472	-13.2478	-0.0157	0.3240	-0.1431	0.7174	0.4341	0.2833	-2.2276
21	25.99	-0.03	6.2255	-13.7133	-0.0103	0.2854	-0.1401	0.7236	0.4551	0.2685	-2.2028
22	26.99	-0.04	6.4673	-14.0678	0.0554	0.2877	-0.1612	0.7159	0.4752	0.2406	-2.1752
23	28.03	-0.04	6.6838	-14.1884	0.0462	0.3146	-0.1761	0.6938	0.4775	0.2163	-2.1228
24	29.06	-0.05	6.9804	-14.3943	0.1631	0.1989	-0.1616	0.6810	0.4955	0.1855	-2.0603
25	30.10	-0.06	7.2205	-14.5260	0.3693	-0.0542	-0.1825	0.6609	0.5161	0.1448	-2.0118
26	19.90	-0.02	4.8341	-11.8973	-0.0839	0.3523	-0.0593	0.6081	0.4520	0.1560	-2.4611
27	9.80	-0.01	3.3011	-9.9415	-0.0362	0.1620	-0.0791	0.3123	0.2081	0.1042	-3.0116
28	-0.01	-0.01	0.0508	-0.2165	-0.0582	0.2080	-0.0646	0.2353	0.0986	0.1367	-4.2589

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)

PAGE 1 OF 1

SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	115	0.9	2.3	0.0	W4WOF34	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-0.00	-0.01	0.0192	-0.0510	-0.0525	0.1926	-0.0669	0.3101	0.0816	0.2285	-2.6487
2	1.97	-0.01	0.5944	-1.6274	-0.0446	0.1587	-0.0687	0.3088	0.0781	0.2307	-2.7386
3	3.93	-0.01	1.2869	-3.7253	-0.0332	0.1305	-0.0726	0.3165	0.0782	0.2383	-2.8948
4	5.88	-0.01	2.0151	-5.9202	-0.0354	0.1385	-0.0751	0.3451	0.0845	0.2606	-2.9379
5	7.83	-0.01	2.7576	-8.2892	-0.0219	0.1058	-0.0820	0.4072	0.0879	0.3194	-3.0068
6	9.78	-0.01	3.3114	-10.3652	-0.0106	0.0543	-0.0958	0.4740	0.0902	0.3838	-3.1241
7	11.75	-0.00	4.0196	-12.0262	-0.0055	0.0469	-0.0289	0.4817	0.0995	0.3822	-2.9919
8	13.76	-0.00	4.3881	-12.6652	-0.0110	0.0295	-0.0730	0.5257	0.1350	0.3907	-2.8908
9	15.79	-0.00	4.6172	-12.7810	-0.0190	0.0614	-0.0567	0.5559	0.1706	0.3853	-2.7681
10	16.81	-0.00	4.7315	-12.8123	-0.0439	0.1067	-0.0550	0.5646	0.2104	0.3742	-2.7079
12	17.83	-0.00	4.8417	-12.7701	-0.0513	0.0936	-0.0375	0.6224	0.3163	0.3061	-2.6375
13	18.85	-0.00	4.9540	-12.7537	-0.0764	0.1461	-0.0039	0.6598	0.3157	0.3441	-2.5744
14	18.85	-0.00	4.9753	-12.7790	-0.1013	0.2156	0.0061	0.6617	0.3376	0.3241	-2.5685
15	19.87	0.00	5.1187	-12.8292	-0.0693	0.1031	-0.0136	0.6901	0.3851	0.3050	-2.5063
16	20.91	0.01	5.3079	-12.9453	-0.0164	-0.1733	-0.0431	0.7122	0.3949	0.3174	-2.4389
17	21.92	0.01	5.4555	-12.9715	0.0178	-0.2507	-0.0747	0.7210	0.4137	0.3073	-2.3777
18	22.94	0.01	5.6364	-13.0828	0.0155	-0.1837	-0.0759	0.7286	0.4363	0.2923	-2.3211
19	23.97	0.00	5.8356	-13.1336	0.0202	-0.1224	-0.0738	0.7258	0.4848	0.2410	-2.2508
20	24.99	-0.01	6.0765	-13.3204	0.0083	0.0116	-0.0880	0.7287	0.4894	0.2392	-2.1922
21	26.01	-0.01	6.3086	-13.5045	0.0096	0.0675	-0.0899	0.7252	0.5038	0.2213	-2.1406
22	26.02	-0.01	6.3216	-13.4074	-0.0002	0.0978	-0.0793	0.7244	0.5194	0.2051	-2.1209
23	27.06	-0.03	6.5832	-13.6000	0.0621	0.2469	-0.0847	0.7100	0.5311	0.1789	-2.0659
24	28.10	-0.03	6.9071	-13.7190	0.0795	0.1463	-0.0679	0.7074	0.5164	0.1910	-1.9862
25	29.15	-0.02	7.2386	-13.8755	0.0040	0.1504	-0.0893	0.6881	0.5303	0.1578	-1.9169
26	30.19	-0.01	7.6174	-14.0680	-0.0606	0.2006	-0.0940	0.6774	0.5470	0.1304	-1.8468
27	30.20	-0.01	7.6035	-14.0226	-0.0834	0.2702	-0.0805	0.6744	0.5594	0.1150	-1.8443
28	19.88	0.01	5.0859	-12.6224	-0.0320	-0.0562	-0.0332	0.6786	0.4864	0.1922	-2.4818
29	19.86	0.00	5.1063	-12.7480	-0.0803	0.1137	-0.0004	0.6902	0.4539	0.2363	-2.4965
30	9.75	-0.01	3.6155	-11.1215	-0.0166	0.0949	-0.0695	0.3827	0.2251	0.1576	-3.0761
31	9.76	-0.01	3.6160	-11.0577	-0.0115	0.0409	-0.0620	0.3712	0.1743	0.1969	-3.0588
32	-0.00	-0.01	0.0622	-0.1712	-0.0487	0.1853	-0.0388	0.2915	0.0913	0.2002	-2.7520
33	0.00	-0.01	0.0446	-0.0922	-0.0414	0.1650	-0.0482	0.3284	0.0574	0.2710	-2.0694

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RE10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	117	0.90	2.3	0.0	84W0F34	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	0.00	-0.01	0.0443	-0.0485	-0.0527	0.2072	-0.0684	0.4326	0.0984	0.3342	-1.0965
2	1.96	-0.01	0.8674	-1.9440	-0.0490	0.1883	-0.0659	0.4342	0.1052	0.3290	-2.9128
3	3.91	-0.01	1.8733	-4.1368	-0.0376	0.1679	-0.0665	0.4443	0.1175	0.3268	-3.0122
4	5.84	-0.01	2.1281	-6.5458	-0.0276	0.1428	-0.0794	0.4803	0.1163	0.3641	-3.0759
5	5.84	-0.01	2.1360	-6.5660	-0.0327	0.1458	-0.0791	0.4881	0.1488	0.3393	-3.0749
6	7.78	-0.01	2.9098	-9.0052	-0.0206	0.1033	-0.0863	0.5371	0.1532	0.3839	-3.0948
7	9.73	-0.01	3.6194	-11.2282	-0.0147	0.0736	-0.0950	0.5890	0.1661	0.4229	-3.1022
8	11.74	-0.01	4.0196	-11.9300	-0.0057	0.0399	-0.0980	0.5609	0.1631	0.3978	-2.9688
9	13.78	-0.00	4.3060	-12.0788	-0.0183	0.0445	-0.0753	0.5052	0.1840	0.3213	-2.8038
10	15.82	0.01	4.5849	-12.2130	-0.0280	0.0713	-0.1787	0.5302	0.2001	0.3301	-2.6638
11	16.84	-0.00	4.7077	-12.1953	-0.0540	0.1156	-0.0569	0.5387	0.2121	0.3266	-2.5985
12	16.84	-0.00	4.7093	-12.2118	-0.0331	0.0293	-0.0609	0.5349	0.2466	0.2883	-2.5931
13	17.86	-0.00	4.8665	-12.3059	-0.0340	0.0301	-0.0536	0.5104	0.2514	0.2590	-2.5277
14	18.88	-0.00	5.0315	-12.4526	-0.0468	0.0763	-0.0539	0.5461	0.2636	0.2825	-2.4769
15	19.91	-0.00	5.2151	-12.4673	-0.0342	0.0150	-0.0910	0.5675	0.2687	0.2988	-2.3944
16	20.94	-0.00	5.4332	-12.5184	0.0323	-0.1778	-0.1694	0.5583	0.2717	0.2866	-2.3841
17	21.96	0.01	5.6269	-12.5937	0.2792	-1.1042	-0.4345	0.6540	0.3069	0.3471	-2.2381
18	23.01	0.01	5.8746	-12.7035	0.2602	-1.0176	-0.3919	0.6596	0.3807	0.2789	-2.1624
19	24.06	-0.00	6.1726	-12.8695	0.1594	-0.6778	-0.3275	0.6820	0.3959	0.2861	-2.0849
20	25.08	-0.01	6.4276	-12.9962	-0.0233	-0.0087	-0.1092	0.6964	0.4084	0.2880	-2.0219
21	26.14	-0.01	6.7781	-13.1456	0.0141	0.0420	-0.0524	0.7054	0.4331	0.2723	-1.9394
22	27.17	-0.02	7.0558	-13.2881	0.0641	0.1330	-0.0026	0.7111	0.4644	0.2467	-1.8833
23	28.25	-0.01	7.5812	-13.5095	0.0992	0.0542	0.0704	0.6992	0.4641	0.2351	-1.7828
24	29.30	-0.01	7.9836	-13.6480	0.0505	0.0387	-0.0143	0.6938	0.4822	0.2116	-1.7895
25	29.30	-0.01	7.9727	-13.5854	0.0595	0.0121	-0.0065	0.6917	0.4949	0.1968	-1.7148
26	29.30	-0.01	7.9799	-13.6664	0.0425	0.0137	-0.0162	0.6895	0.5129	0.1766	-1.7126
27	30.36	-0.01	8.4040	-13.8907	-0.0231	0.0808	-0.1068	0.6785	0.5231	0.1554	-1.6529
28	19.92	0.01	5.1544	-12.2063	0.0181	-0.1949	-0.1057	0.5068	0.4029	0.1040	-2.3681
29	9.73	-0.01	3.6622	-11.3566	-0.0128	0.0816	-0.0850	0.5678	0.2430	0.3247	-3.1011
30	0.00	-0.01	0.0446	-0.0952	-0.0484	0.2093	-0.0621	0.4216	0.1453	0.2763	-2.1248

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MALM	RX10=6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	11A	1.10	2.3	0.0	84=OF34	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	0.00	-0.01	0.0146	0.0003	-0.0731	0.2959	-0.0595	0.6367	0.2036	0.4331	0.0201
2	1.95	-0.01	0.4612	-1.9547	-0.0681	0.2840	-0.0594	0.6373	0.2013	0.4360	-2.9563
3	1.95	-0.01	0.4625	-1.9551	-0.0631	0.2846	-0.0566	0.6377	0.2104	0.4269	-2.9513
4	3.90	-0.01	1.3529	-4.0479	-0.0619	0.2673	-0.0640	0.6439	0.2035	0.4404	-2.9928
5	5.84	-0.02	2.0849	-6.3392	-0.0520	0.2514	-0.0712	0.6739	0.2026	0.4713	-3.0405
6	5.84	-0.01	2.0822	-6.3298	-0.0484	0.2330	-0.0745	0.6671	0.2132	0.4540	-3.0408
7	7.79	-0.01	2.8207	-8.6225	-0.0418	0.2038	-0.0807	0.7149	0.2158	0.4991	-3.0569
8	9.72	-0.01	3.5365	-10.7905	-0.0325	0.1694	-0.0868	0.7577	0.2112	0.5464	-3.0512
9	11.75	-0.01	3.8385	-11.0673	-0.0215	0.1344	-0.0902	0.7176	0.2213	0.4963	-2.8780
10	13.81	-0.01	4.1227	-11.1254	-0.0314	0.1078	-0.0803	0.7046	0.2339	0.4706	-2.6986
11	15.86	-0.01	4.4610	-11.3616	-0.0397	0.1443	-0.0628	0.7097	0.2404	0.4693	-2.5424
12	16.88	-0.01	4.6366	-11.4247	-0.0443	0.1394	-0.0491	0.7239	0.2408	0.4831	-2.4640
13	17.91	-0.01	4.8229	-11.5145	-0.0406	0.1394	-0.0482	0.7672	0.2496	0.5176	-2.3875
14	18.94	-0.01	5.0273	-11.6012	-0.0416	0.1394	-0.0488	0.8218	0.2624	0.5593	-2.3076
15	19.99	-0.01	5.2702	-11.7045	-0.0342	0.1399	-0.0495	0.8824	0.2747	0.6077	-2.2209
16	21.04	-0.01	5.5406	-11.8389	-0.0309	0.1291	-0.0444	0.8393	0.2850	0.5543	-2.1368
17	22.08	-0.01	5.8348	-11.9763	-0.0252	0.1360	-0.0448	0.8824	0.2930	0.3894	-2.0526
18	23.10	-0.01	6.1617	-12.1210	-0.0142	0.1284	-0.0513	0.6784	0.2936	0.3848	-1.9671
19	24.16	-0.01	6.4777	-12.2947	0.0152	0.0773	-0.0613	0.6100	0.3220	0.2881	-1.8980
20	25.19	-0.02	6.8025	-12.4647	0.0192	0.0729	-0.0593	0.6207	0.3324	0.2883	-1.8324
21	26.24	-0.02	7.1787	-12.6582	0.0579	0.0429	-0.0543	0.6359	0.3370	0.2989	-1.7633
22	27.33	-0.02	7.5780	-12.8352	0.0864	-0.0102	-0.0382	0.6399	0.3419	0.2980	-1.6937
23	28.37	-0.01	7.9805	-12.9892	0.0837	-0.0473	-0.0425	0.6303	0.3492	0.2810	-1.6276
24	29.46	-0.01	8.3675	-13.1246	0.0862	-0.0434	-0.0087	0.5976	0.3566	0.2410	-1.5685
25	30.49	-0.01	8.6725	-13.2486	0.0783	-0.0065	-0.0207	0.6105	0.3673	0.2432	-1.5277
26	20.00	-0.01	5.2567	-11.4606	-0.0278	0.1026	-0.0505	0.3984	0.3422	0.0562	-2.1840
27	9.74	-0.01	3.4739	-10.4584	-0.0354	0.1834	-0.0814	0.7296	0.2922	0.4374	-3.0106
28	0.00	-0.01	0.0334	-0.0621	-0.0768	0.3077	-0.0564	0.6432	0.2150	0.4282	-1.8500

ARNOLD ENGINEERING DEVELOPMENT CENTER (AEDC) PROPULSION WIND TUNNEL FACILITY (PWT) AERODYNAMIC WIND TUNNEL (4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	119	1.20	2.3	0.0	84 OF 34	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLN	CY	CLN	CLL	CA	CAB	CAF	XCP
1	0.01	-0.01	0.0050	0.0767	-0.0352	0.1467	-0.0540	0.6430	0.2177	0.4253	15.2227
2	1.95	-0.01	0.6051	-1.8525	-0.0217	0.0965	-0.0459	0.6428	0.2060	0.4368	-3.0617
3	1.95	-0.01	0.6779	-1.9773	-0.0210	0.0927	-0.0475	0.6389	0.2072	0.4317	-2.9167
4	3.88	-0.01	1.3912	-4.1704	-0.0137	0.0781	-0.0562	0.6471	0.2033	0.4439	-2.9977
5	5.84	-0.01	2.0476	-6.2563	-0.0067	0.0684	-0.0648	0.6797	0.2024	0.4773	-3.0554
6	7.79	-0.01	2.7617	-8.3423	-0.0005	0.0480	-0.0736	0.7293	0.2023	0.5270	-3.0207
7	9.74	-0.01	3.3356	-10.0779	0.0060	0.0258	-0.0798	0.7728	0.2049	0.5679	-3.0211
8	11.73	-0.01	3.7477	-10.5613	0.0093	0.0265	-0.0831	0.7470	0.2092	0.5378	-2.8181
9	13.83	-0.01	4.0606	-10.7021	0.0112	0.0203	-0.0825	0.7152	0.2164	0.4988	-2.6355
10	15.88	-0.01	4.4021	-10.8996	0.0047	0.0182	-0.0711	0.7281	0.2236	0.5046	-2.4760
11	16.91	-0.01	4.6375	-11.0075	0.0030	0.0134	-0.0621	0.6819	0.2291	0.4528	-2.3736
12	17.95	-0.01	4.8789	-11.1372	-0.0007	0.0145	-0.0573	0.7050	0.2340	0.4709	-2.2827
13	18.98	-0.01	5.1682	-11.2982	0.0038	0.0108	-0.0514	0.7604	0.2403	0.5201	-2.1861
14	19.00	-0.01	5.1319	-11.1187	0.0013	0.0147	-0.0547	0.7211	0.2795	0.4416	-2.1666
15	20.06	-0.01	5.4426	-11.2654	0.0041	0.0088	-0.0515	0.7482	0.2869	0.4613	-2.0735
16	21.10	0.00	5.7389	-11.3936	0.0170	-0.0326	0.0305	0.6982	0.2900	0.4083	-1.9853
17	22.15	-0.01	6.0644	-11.5220	0.0064	0.0316	-0.0444	0.6800	0.2906	0.3893	-1.8999
18	23.20	-0.01	6.3934	-11.6990	0.0047	0.0454	-0.0560	0.6497	0.2937	0.3561	-1.8299
19	24.26	-0.01	6.7259	-11.8551	0.0385	-0.0231	-0.0696	0.6573	0.2964	0.3609	-1.7626
20	25.32	-0.01	7.0789	-12.0241	0.0557	-0.0609	-0.0816	0.6419	0.3006	0.3413	-1.6986
21	26.38	-0.02	7.4466	-12.2053	0.0639	-0.0512	-0.0865	0.6624	0.3076	0.3549	-1.6398
22	27.44	-0.02	7.8360	-12.4180	0.1004	-0.1020	-0.0770	0.6680	0.3155	0.3524	-1.5847
23	28.50	-0.02	8.2108	-12.5913	0.1260	-0.1811	-0.0744	0.6626	0.3171	0.3455	-1.5335
24	29.55	-0.02	8.5751	-12.7741	0.1379	-0.1834	-0.0657	0.6552	0.3256	0.3296	-1.4897
25	30.60	-0.01	8.9400	-12.9638	0.1321	-0.1872	-0.0534	0.6440	0.3362	0.3079	-1.4501
26	20.06	-0.01	5.4264	-11.1598	-0.0173	0.0985	-0.0440	0.5218	0.3197	0.2018	-2.0566
27	9.75	-0.01	3.3809	-10.0587	0.0083	0.0299	-0.0730	0.7359	0.2283	0.5076	-2.9752
28	0.01	-0.01	0.0308	-0.0008	-0.0361	0.1616	-0.0540	0.6340	0.2202	0.4138	-0.0256
29	0.01	-0.01	0.0131	0.0520	-0.0315	0.1452	-0.0515	0.6378	0.2061	0.4317	3.9782

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	I20	I.30	2.3	0.0	W4W0F34	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	0.02	-0.01	-0.0409	0.7809	-0.0424	0.1797	-0.0602	0.6080	0.2055	0.4025	-6.8671
2	1.97	-0.01	0.5844	-1.6192	-0.0335	0.1458	-0.0584	0.6060	0.2077	0.3983	-2.7518
3	3.91	-0.01	1.2378	-3.5751	-0.0314	0.1457	-0.0680	0.6109	0.2075	0.4034	-2.8882
4	5.86	-0.01	1.8919	-5.5608	-0.0247	0.1307	-0.0723	0.6397	0.2040	0.4357	-2.9393
5	7.82	-0.01	2.5347	-7.4359	-0.0063	0.0819	-0.0744	0.6676	0.2030	0.4645	-2.9336
6	9.79	-0.01	3.1922	-9.2331	-0.0028	0.0652	-0.0754	0.7111	0.2050	0.5061	-2.8924
7	11.79	-0.01	3.7029	-10.2936	0.0124	0.0297	-0.0823	0.7196	0.2088	0.5108	-2.7799
8	13.84	-0.01	4.0453	-10.4841	0.0153	0.0047	-0.0836	0.7003	0.2158	0.4845	-2.5917
9	15.91	-0.01	4.4288	-10.5897	0.0263	-0.0088	-0.0774	0.6622	0.2397	0.4225	-2.3911
10	16.96	-0.01	4.6815	-10.7543	0.0147	0.0121	-0.0701	0.6618	0.2540	0.4079	-2.2972
11	17.98	-0.01	4.9817	-10.9413	0.0172	-0.0047	-0.0673	0.6938	0.2554	0.4385	-2.1963
12	19.04	-0.01	5.2875	-11.0701	0.0219	-0.0068	-0.0680	0.7243	0.2600	0.4643	-2.0936
13	20.08	-0.01	5.5716	-11.1343	0.0460	-0.0774	-0.0739	0.6504	0.2665	0.3839	-1.9984
14	21.13	-0.01	5.8843	-11.2644	0.0385	-0.0499	-0.0652	0.6408	0.2705	0.3704	-1.9143
15	22.19	-0.01	6.2187	-11.4356	0.0443	-0.0392	-0.0686	0.5993	0.2730	0.3263	-1.8395
16	23.25	-0.01	6.5553	-11.6376	0.0435	-0.0557	-0.0847	0.6161	0.2691	0.3469	-1.7753
17	24.29	-0.01	6.9041	-11.8519	0.0594	-0.1062	-0.0865	0.6444	0.2697	0.3747	-1.7168
18	25.33	-0.01	7.2526	-12.0573	0.0329	-0.0337	-0.0804	0.6250	0.2719	0.3530	-1.6625
19	26.41	-0.01	7.6238	-12.1734	0.0844	-0.1558	-0.0857	0.6319	0.2800	0.3520	-1.5968
20	27.48	-0.01	7.9646	-12.2226	0.0321	-0.0003	-0.0605	0.6252	0.2953	0.3299	-1.5346
21	28.55	-0.01	8.3617	-12.4444	0.0740	-0.0717	-0.0407	0.6273	0.3025	0.3248	-1.4883
22	29.60	-0.01	8.7191	-12.6350	0.0920	-0.1131	-0.0263	0.6347	0.3126	0.3221	-1.4491
23	30.64	-0.01	9.0803	-12.8318	0.0810	-0.0931	-0.0462	0.6321	0.3210	0.3111	-1.4132
24	20.11	-0.01	5.5476	-10.9321	0.0313	-0.0464	-0.0688	0.5801	0.3192	0.2609	-1.9705
25	9.78	-0.01	3.1898	-9.2679	0.0027	0.0553	-0.0724	0.6889	0.2708	0.4180	-2.9064
26	0.02	-0.01	-0.0248	0.2299	-0.0422	0.1845	-0.0587	0.6019	0.2328	0.3691	-9.2526

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	125	0.60	2.3	0.0	64W0F33	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-0.00	-0.00	0.0332	-0.0914	-0.0181	0.0542	-0.0731	0.3039	0.0934	0.2105	-2.7476
2	1.97	0.00	0.6151	-1.7628	-0.0071	0.0081	-0.0763	0.3158	0.0914	0.2243	-2.8658
3	3.94	0.00	1.2318	-3.5631	0.0032	-0.0309	-0.0833	0.3220	0.0959	0.2261	-2.8926
4	5.90	0.00	1.8763	-5.5014	0.0091	-0.0530	-0.0970	0.3356	0.0990	0.2365	-2.9289
5	7.86	0.00	2.5439	-7.5736	-0.0034	-0.0297	-0.0992	0.3825	0.0986	0.2842	-2.9772
6	9.84	-0.00	2.8665	-8.3710	-0.0565	0.1705	-0.0337	0.4639	0.1161	0.3478	-2.9203
7	11.85	-0.00	3.1277	-8.8372	-0.0114	0.0072	-0.0811	0.5266	0.1461	0.3805	-2.8254
8	13.84	0.00	3.5660	-9.8305	-0.0090	-0.0301	-0.0743	0.5715	0.1809	0.3906	-2.7582
9	15.85	0.00	3.9647	-10.8609	-0.0103	-0.0350	-0.0631	0.6048	0.2099	0.3949	-2.6890
10	16.88	0.00	4.1627	-10.9606	-0.0320	0.0058	-0.0486	0.6158	0.2464	0.3694	-2.6331
11	17.88	-0.00	4.3400	-11.1879	-0.0467	0.1102	-0.0222	0.6455	0.2551	0.3903	-2.5779
12	18.90	-0.01	4.3222	-10.6664	-0.0888	0.2863	-0.0108	0.6949	0.2894	0.4055	-2.4678
13	19.95	-0.00	4.4660	-10.8769	-0.0472	0.1019	-0.0150	0.7342	0.3239	0.4104	-2.3795
14	19.94	-0.00	4.4642	-10.6469	-0.0812	0.2049	-0.0085	0.7249	0.3847	0.3402	-2.3848
15	20.94	-0.00	4.6787	-10.9432	-0.0432	0.1403	-0.0220	0.7551	0.3922	0.3629	-2.3389
16	21.96	-0.01	4.9265	-11.3715	-0.0329	0.1407	-0.0477	0.7736	0.4115	0.3621	-2.3092
17	22.97	-0.01	5.1453	-11.7236	-0.0360	0.1910	-0.0617	0.7797	0.4301	0.3496	-2.2785
18	23.97	-0.02	5.4571	-12.2489	-0.0228	0.2671	-0.0899	0.8064	0.4450	0.3614	-2.2446
19	24.99	-0.03	5.6823	-12.5991	-0.0314	0.3529	-0.1224	0.8002	0.4697	0.3304	-2.2173
20	25.99	-0.04	5.9638	-13.0260	-0.0160	0.3851	-0.1538	0.8045	0.4697	0.3347	-2.1842
21	27.02	-0.04	6.2212	-13.4211	0.0100	0.3850	-0.1739	0.8020	0.5077	0.2944	-2.1573
22	28.02	-0.06	6.5323	-13.9527	0.1265	0.3589	-0.2741	0.7829	0.5186	0.2643	-2.1368
23	29.04	-0.07	6.7812	-14.2928	0.2060	0.2049	-0.2739	0.7762	0.5227	0.2535	-2.1077
24	30.06	-0.07	7.0497	-14.5893	0.3203	0.0242	-0.2869	0.7591	0.5278	0.2314	-2.0695
25	19.94	-0.00	4.4691	-10.6475	-0.0700	0.1922	-0.0068	0.7031	0.4783	0.2247	-2.3825
26	19.93	-0.00	4.4601	-10.6706	-0.0624	0.1664	-0.0105	0.7104	0.4090	0.3014	-2.3925
27	9.84	-0.01	2.9004	-8.5562	-0.0762	0.2935	-0.0284	0.4040	0.2252	0.1787	-2.9508
28	-0.01	-0.01	0.0562	-0.2000	-0.0311	0.1332	-0.0702	0.2826	0.1156	0.1671	-3.5556

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	126	0.89	2.3	0.0	64=OF33	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-0.00	-0.00	0.0470	-0.1612	-0.0230	0.0935	-0.0682	0.2932	0.0842	0.2090	-3.4272
2	1.96	-0.00	0.6422	-1.6773	-0.0142	0.0554	-0.0743	0.2944	0.0948	0.2036	-2.9230
3	3.94	-0.00	1.2840	-3.7536	-0.0062	0.0259	-0.0794	0.3019	0.0993	0.2026	-2.9234
4	3.93	-0.00	1.2697	-3.7393	-0.0042	0.0329	-0.0789	0.2994	0.0946	0.2048	-2.9450
5	5.90	-0.00	1.9831	-5.8639	-0.0017	0.0147	-0.0935	0.3050	0.0892	0.2158	-2.9569
6	5.89	-0.00	2.0021	-5.9668	-0.0001	0.0097	-0.0984	0.3040	0.0822	0.2218	-2.9803
7	7.84	-0.00	2.7243	-8.1847	0.0042	-0.0314	-0.1035	0.3256	0.1016	0.2237	-3.0043
8	9.84	-0.01	2.8490	-8.3554	-0.0917	0.3487	-0.0041	0.4421	0.1498	0.2923	-2.9329
9	11.86	-0.01	3.1479	-8.9175	-0.0251	0.0847	-0.0763	0.5115	0.1706	0.3409	-2.8328
10	13.83	-0.00	3.6410	-10.1394	-0.0165	0.0315	-0.0806	0.5614	0.1966	0.3648	-2.7848
11	15.83	-0.00	4.1295	-11.3007	-0.0164	0.0102	-0.0544	0.6102	0.2161	0.3942	-2.7366
12	16.84	-0.00	4.3477	-11.6735	-0.0104	0.0081	-0.0370	0.6220	0.2429	0.3791	-2.6850
13	17.86	0.00	4.4644	-11.7766	-0.0356	0.0395	-0.0196	0.6420	0.2615	0.3804	-2.6379
14	18.90	-0.01	4.5228	-11.6115	-0.0969	0.2814	0.0060	0.7032	0.2806	0.4225	-2.5231
15	19.92	-0.00	4.6514	-11.2875	-0.0484	0.1146	-0.0086	0.7347	0.3229	0.4118	-2.4267
16	19.91	-0.01	4.6511	-11.3744	-0.0313	0.1384	-0.0060	0.7363	0.3467	0.3895	-2.4458
17	20.93	-0.01	4.8629	-11.5918	-0.0413	0.1483	-0.0099	0.7611	0.3723	0.3888	-2.3837
18	21.93	-0.01	5.0887	-11.9222	-0.0373	0.1589	-0.0190	0.7704	0.4034	0.3670	-2.3429
19	22.94	-0.02	5.3051	-12.2770	-0.0398	0.2524	-0.0673	0.7824	0.4193	0.3631	-2.3142
20	23.95	-0.02	5.6128	-12.8207	-0.0256	0.2518	-0.0746	0.7994	0.4375	0.3620	-2.2842
21	24.96	-0.03	5.8659	-13.1813	-0.0161	0.3709	-0.1111	0.8018	0.4508	0.3510	-2.2471
22	26.01	-0.04	6.1328	-13.5539	0.0044	0.3755	-0.1545	0.8020	0.4710	0.3310	-2.2101
23	27.02	-0.05	6.3761	-13.7850	0.0766	0.3472	-0.2122	0.7990	0.4986	0.3003	-2.1620
24	28.04	-0.06	6.5966	-13.8756	0.1911	0.1910	-0.2540	0.7820	0.5124	0.2696	-2.1034
25	29.06	-0.06	6.8107	-13.9595	0.2512	0.0329	-0.2317	0.7640	0.5180	0.2460	-2.0496
26	30.11	-0.06	7.0478	-14.0461	0.3564	-0.1977	-0.2236	0.7390	0.5321	0.2069	-1.9986
27	19.91	-0.01	4.6595	-11.3291	-0.0564	0.1862	-0.0092	0.7302	0.4375	0.2927	-2.4314
28	9.84	-0.01	2.8531	-8.3773	-0.0934	0.3729	-0.0037	0.4261	0.2144	0.2117	-2.9362
29	-0.00	-0.00	0.0507	-0.1770	-0.0259	0.1085	-0.0647	0.2905	0.1012	0.1893	-3.4898
30	-0.00	-0.00	0.0512	-0.1745	-0.0238	0.1040	-0.0653	0.2902	0.0888	0.2014	-3.4065

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	127	0.92	2.3	0.0	B4W0F33	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-0.00	0.00	0.0335	-0.1003	0.0039	-0.0201	-0.0626	0.3699	0.0985	0.2714	-2.9922
2	1.97	0.00	0.5739	-1.5443	0.0037	-0.0227	-0.0720	0.3680	0.0971	0.2709	-2.6909
3	3.93	-0.00	1.2602	-3.6424	0.0037	-0.0005	-0.0755	0.3650	0.0955	0.2695	-2.8904
4	5.88	-0.01	1.9517	-5.7741	-0.0232	0.1022	-0.0947	0.3676	0.0799	0.2877	-2.9585
5	7.85	-0.01	2.5941	-7.7092	-0.0406	0.1639	0.0113	0.4317	0.1007	0.3310	-2.9718
6	9.85	-0.01	2.8681	-8.2369	-0.1734	0.6435	0.2627	0.5196	0.1354	0.3841	-2.8712
7	11.81	-0.01	3.5163	-10.2656	-0.2165	0.7951	0.3227	0.5832	0.1584	0.4248	-2.9137
8	13.81	-0.01	3.8024	-10.7651	-0.0149	0.0443	-0.0972	0.6218	0.2235	0.3983	-2.8364
9	15.79	-0.00	4.3408	-12.2694	-0.0097	-0.0145	-0.0613	0.6680	0.2617	0.4063	-2.8007
10	16.81	0.00	4.5557	-12.5182	-0.0110	-0.0247	-0.0464	0.6812	0.2652	0.4161	-2.7478
11	17.82	0.00	4.7227	-12.6335	-0.0157	-0.0251	-0.0301	0.6865	0.2903	0.3961	-2.6751
12	18.84	0.00	4.8925	-12.7652	-0.0263	0.0123	-0.0186	0.6970	0.3019	0.3950	-2.6091
13	19.86	-0.00	5.0327	-12.7667	-0.0468	0.1430	0.0071	0.7144	0.3028	0.4115	-2.5367
14	20.89	-0.01	5.1691	-12.7487	-0.1164	0.4324	0.0635	0.7776	0.3141	0.4634	-2.4663
15	21.91	-0.01	5.3448	-12.8256	-0.0156	0.0896	-0.0476	0.8205	0.3466	0.4740	-2.3996
16	22.94	-0.02	5.5317	-12.8831	0.0041	0.1337	-0.0655	0.8249	0.4613	0.3636	-2.3289
17	23.97	-0.02	5.7475	-13.0411	-0.0131	0.2147	-0.0722	0.8270	0.4874	0.3396	-2.2690
18	25.00	-0.02	5.9633	-13.1307	0.0106	0.1784	-0.0779	0.8208	0.4894	0.3314	-2.2019
19	26.03	-0.03	6.2179	-13.3359	0.0699	0.1931	-0.1082	0.8121	0.5093	0.3028	-2.1448
20	27.05	-0.03	6.4757	-13.4525	0.1259	0.0659	-0.1229	0.7946	0.5163	0.2783	-2.0774
21	28.11	-0.04	6.7961	-13.5580	0.2597	-0.1719	-0.1078	0.7700	0.5111	0.2589	-1.9950
22	29.15	-0.02	7.1666	-13.7060	0.2184	-0.2287	-0.0533	0.7565	0.5203	0.2362	-1.9125
23	30.20	-0.01	7.5097	-13.9221	0.1522	-0.1566	-0.0159	0.7475	0.5325	0.2150	-1.8539
24	19.87	-0.00	4.9943	-12.5402	-0.0499	0.1466	-0.0030	0.6970	0.4184	0.2785	-2.5209
25	9.85	-0.02	2.8750	-8.2788	-0.1853	0.6977	0.2661	0.4958	0.2573	0.2386	-2.8796
26	-0.00	0.00	0.0472	-0.1280	-0.0028	0.0015	-0.0603	0.3796	0.1080	0.2716	-2.7150
27	-0.00	0.00	0.0429	-0.1302	0.0029	-0.0088	-0.0573	0.3653	0.1073	0.2580	-3.0354

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	128	0.94	2.3	0.0	B4A0F33	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-0.00	-0.00	0.0414	-0.1066	-0.0072	0.0235	-0.0673	0.4297	0.0982	0.3315	-2.5751
2	1.97	0.00	0.5589	-1.5064	0.0103	-0.0436	-0.0788	0.4125	0.1110	0.3014	-2.6952
3	3.92	-0.00	1.2550	-3.5738	-0.0029	0.0132	-0.0856	0.4042	0.1034	0.3008	-2.8477
4	5.87	-0.01	1.9633	-5.8395	-0.0177	0.1024	-0.1014	0.4150	0.1073	0.3077	-2.9743
5	7.84	-0.01	2.6209	-7.9012	-0.0501	0.2141	-0.0077	0.4641	0.1133	0.3508	-3.0147
6	9.83	-0.01	2.9618	-8.7093	-0.1545	0.6142	0.2927	0.5531	0.1374	0.4157	-2.9405
7	11.80	-0.02	3.5569	-10.3148	-0.2024	0.7698	0.3267	0.6185	0.1623	0.4562	-2.9000
8	13.81	-0.01	3.8276	-10.9514	-0.0199	0.0602	-0.0966	0.6333	0.1961	0.4372	-2.8350
9	15.79	-0.00	4.3875	-12.2500	-0.0123	-0.0133	-0.0758	0.6767	0.2462	0.4305	-2.7920
10	16.80	0.00	4.5503	-12.3804	-0.0089	-0.0267	-0.0488	0.6767	0.2695	0.4072	-2.7208
11	17.83	0.00	4.6992	-12.4275	-0.0265	0.0045	-0.0344	0.6832	0.2799	0.4032	-2.6446
12	18.85	0.00	4.8708	-12.5675	-0.0162	-0.0053	-0.0284	0.6876	0.2998	0.3878	-2.5802
13	19.87	0.00	5.0347	-12.6328	-0.0179	0.0107	-0.0238	0.6969	0.3099	0.3870	-2.5091
14	20.89	-0.00	5.1934	-12.6944	-0.0813	0.2221	0.0036	0.7310	0.3190	0.4120	-2.4443
15	21.91	-0.02	5.3574	-12.6632	-0.1317	0.5740	0.0678	0.7800	0.3266	0.4534	-2.3637
16	22.95	-0.01	5.5570	-12.7626	-0.0260	0.1971	-0.0429	0.8154	0.3542	0.4612	-2.2967
17	23.98	-0.02	5.7835	-12.9194	-0.0007	0.1594	-0.0570	0.8254	0.3977	0.4277	-2.2338
18	25.00	-0.02	6.0292	-13.0609	0.0150	0.1493	-0.0446	0.8104	0.4324	0.3780	-2.1663
19	26.05	-0.02	6.2759	-13.1816	0.0683	0.1033	-0.0567	0.8086	0.4636	0.3450	-2.1003
20	27.10	-0.02	6.5588	-13.2973	0.1404	-0.0535	-0.0698	0.7817	0.4767	0.3050	-2.0274
21	28.13	-0.03	6.9003	-13.4334	0.2454	-0.2225	-0.0681	0.7788	0.4899	0.2888	-1.9468
22	29.16	-0.01	7.3710	-13.6420	0.1431	-0.1816	-0.0144	0.7699	0.5054	0.2644	-1.8508
23	30.24	-0.00	7.7371	-13.7961	0.0903	-0.1144	0.0061	0.7057	0.5444	0.1612	-1.7831
24	19.88	-0.00	4.9830	-12.3631	-0.0293	0.0811	-0.0200	0.6719	0.4614	0.2105	-2.4811
25	9.82	-0.01	2.9909	-8.8215	-0.1527	0.6031	0.2955	0.5359	0.3065	0.2294	-2.9495
26	6.06	-0.01	2.1950	-6.6566	-0.0283	0.1412	-0.1058	0.4419	0.1965	0.2455	-3.0326
27	-0.00	-0.00	0.0485	-0.1291	-0.0082	0.0289	-0.0609	0.4158	0.1144	0.3014	-2.6635

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RE/10**6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	129	0.96	2.3	0.0	84 OF 33	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAM	CAF	XCP
1	-0.00	-0.00	0.0409	-0.1205	-0.0102	0.0411	-0.0711	0.4617	0.1110	0.3508	-2.9548
2	1.97	0.00	0.5954	-1.6521	0.0042	-0.0216	-0.0792	0.4614	0.1157	0.3457	-2.7747
3	3.92	-0.00	1.2864	-3.7576	0.0046	-0.0047	-0.0856	0.4768	0.1158	0.3610	-2.9201
4	5.87	-0.01	2.0116	-6.0641	-0.0141	0.0794	-0.1080	0.4721	0.1267	0.3454	-3.0248
5	5.86	-0.01	2.0330	-6.1619	-0.0146	0.0793	-0.1087	0.5051	0.1183	0.3868	-3.0310
6	7.80	-0.01	2.7745	-8.5747	-0.0179	0.0985	-0.1059	0.5295	0.1436	0.3859	-3.0905
7	9.77	-0.01	3.3496	-10.1364	-0.0338	0.1414	-0.0215	0.5602	0.1679	0.3923	-3.0263
8	11.74	-0.01	3.9432	-11.8332	-0.0096	0.0406	-0.0854	0.6198	0.1642	0.4556	-3.0009
9	13.77	-0.01	4.1346	-11.9341	-0.1799	0.6460	0.2980	0.6919	0.1862	0.5057	-2.8836
10	15.80	-0.00	4.3702	-12.0837	-0.0116	0.0154	-0.0826	0.6797	0.2717	0.4080	-2.7650
11	16.82	-0.00	4.5332	-12.2089	-0.0127	-0.0078	-0.0561	0.6811	0.2945	0.3866	-2.6932
12	16.82	-0.00	4.5313	-12.1652	-0.0180	0.0071	-0.0672	0.6831	0.2892	0.3939	-2.6847
13	17.63	0.00	4.6869	-12.2395	-0.0276	0.0131	-0.0435	0.6865	0.2958	0.3907	-2.6114
14	18.87	-0.00	4.8657	-12.3467	-0.0115	0.0182	-0.0342	0.6986	0.3051	0.3935	-2.5375
15	19.90	-0.00	5.0424	-12.4406	-0.0763	0.0665	-0.0231	0.7073	0.3115	0.3958	-2.4672
16	20.91	-0.00	5.2239	-12.5132	-0.0158	0.0608	-0.0188	0.7126	0.3229	0.3897	-2.3954
17	21.94	-0.02	5.4356	-12.5743	-0.0620	0.3310	0.0056	0.7538	0.3298	0.4240	-2.3133
18	22.97	-0.02	5.6495	-12.6424	-0.0987	0.5126	0.0463	0.7949	0.3583	0.4366	-2.2378
19	24.01	-0.02	5.8951	-12.7561	-0.0517	0.3900	0.0128	0.8040	0.4443	0.3598	-2.1638
20	25.05	-0.02	6.1508	-12.8814	0.0099	0.2354	-0.0113	0.8150	0.4640	0.3510	-2.0929
21	26.08	-0.02	6.4447	-13.0622	0.0610	0.1530	-0.0140	0.8086	0.4811	0.3275	-2.0260
22	27.13	-0.02	6.7620	-13.2470	0.1022	0.0086	-0.0208	0.7870	0.4960	0.2910	-1.9598
23	27.13	-0.02	6.8177	-13.1698	0.1034	0.0255	0.0032	0.7976	0.5004	0.2972	-1.9317
24	28.16	-0.02	7.1182	-13.3653	0.1602	-0.0899	0.0018	0.7859	0.5162	0.2697	-1.8776
25	28.17	-0.02	7.1857	-13.3492	0.1767	-0.1287	0.0155	0.7786	0.5152	0.2634	-1.8577
26	29.24	-0.00	7.6693	-13.6325	0.0607	-0.0755	0.0189	0.7640	0.5225	0.2415	-1.7778
27	30.24	-0.00	8.0132	-13.7802	0.0628	-0.0574	0.0355	0.7596	0.5330	0.2266	-1.7197
28	19.89	-0.00	4.9767	-12.2069	-0.0281	0.0794	-0.0231	0.6824	0.4741	0.2083	-2.4518
29	9.76	-0.01	3.4137	-10.4241	-0.0334	0.1523	-0.0593	0.5619	0.2994	0.2626	-3.0536
30	-0.00	-0.00	0.0543	-0.1676	-0.0165	0.0692	-0.0676	0.4637	0.1598	0.3038	-3.0857

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	131	0.90	2.3	0.0	B4W0F33	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-0.00	-0.00	0.0394	-0.1175	-0.0239	0.0980	-0.0663	0.5075	0.1121	0.3954	-2.9816
2	1.96	-0.00	0.6222	-1.7941	-0.0092	0.0296	-0.0727	0.5125	0.1220	0.3905	-2.8833
3	1.96	-0.00	0.6247	-1.7989	-0.0080	0.0371	-0.0708	0.5183	0.1205	0.3978	-2.8795
4	3.93	-0.00	1.3259	-3.8569	0.0043	0.0011	-0.0777	0.5159	0.1319	0.3840	-2.9089
5	5.86	-0.01	2.0243	-6.1863	-0.0142	0.0681	-0.1012	0.5468	0.1410	0.4059	-3.0560
6	7.78	-0.00	2.7828	-8.6742	-0.0139	0.0490	-0.1078	0.5890	0.1520	0.4370	-3.1171
7	7.79	-0.01	2.8018	-8.7573	-0.0121	0.0666	-0.1102	0.5966	0.1825	0.4140	-3.1256
8	9.75	-0.01	3.4527	-10.6612	-0.0126	0.0591	-0.0970	0.6273	0.1980	0.4293	-3.0878
9	11.73	-0.01	3.9169	-11.6941	-0.0175	0.0649	-0.0807	0.6814	0.1921	0.4893	-2.9856
10	13.78	-0.00	4.1207	-11.7508	-0.1418	0.5145	0.2772	0.7096	0.2233	0.4862	-2.8517
11	15.81	-0.00	4.3551	-11.8768	-0.0106	0.0259	-0.0811	0.7033	0.2562	0.4471	-2.7271
12	16.82	-0.00	4.5056	-11.9926	-0.0203	0.0319	-0.0706	0.6855	0.2887	0.3968	-2.6617
13	17.85	-0.00	4.6827	-12.0372	-0.0173	0.0220	-0.0583	0.6994	0.2829	0.4165	-2.5706
14	18.87	-0.00	4.8564	-12.2177	-0.0349	0.0565	-0.0353	0.6834	0.3192	0.3642	-2.5158
15	18.88	-0.00	4.8570	-12.0655	-0.0314	0.0726	-0.0566	0.6858	0.3098	0.3759	-2.4842
16	18.88	-0.00	4.8626	-12.1213	-0.0188	0.0487	-0.0445	0.6896	0.3256	0.3640	-2.4927
17	19.90	-0.01	5.0501	-12.2774	-0.0240	0.0767	-0.0434	0.6920	0.3432	0.3488	-2.4311
18	19.91	-0.01	5.0716	-12.2091	-0.0049	0.0417	-0.0606	0.6882	0.3296	0.3587	-2.4074
19	20.93	-0.01	5.2725	-12.3478	-0.0107	0.0824	-0.0390	0.7010	0.3476	0.3534	-2.3419
20	21.96	-0.01	5.4821	-12.4188	0.0187	0.0906	-0.0407	0.7059	0.3606	0.3453	-2.2653
21	23.00	-0.01	5.7835	-12.5772	-0.0774	0.3917	0.0519	0.7793	0.3629	0.4164	-2.1747
22	24.04	-0.02	6.0519	-12.6512	-0.0681	0.4977	0.1083	0.8069	0.3788	0.4281	-2.0904
23	25.09	-0.02	6.3371	-12.8315	-0.0351	0.3598	0.0770	0.8077	0.4035	0.4042	-2.0248
25	27.17	-0.01	6.9273	-13.1312	0.0855	0.0572	0.0374	0.7920	0.4619	0.3301	-1.8956
26	27.19	-0.01	7.0386	-13.1385	0.0596	0.1348	0.0625	0.8076	0.4836	0.3240	-1.8666
27	28.23	-0.01	7.4158	-13.2892	0.1263	-0.0530	0.0709	0.7952	0.4941	0.3012	-1.7928
28	29.30	-0.01	7.8896	-13.5221	0.0536	0.0174	0.0448	0.7758	0.5056	0.2702	-1.7139
29	30.34	-0.00	8.2527	-13.7294	0.0359	-0.0189	0.0200	0.7643	0.5265	0.2378	-1.6636
30	19.92	-0.01	5.0365	-12.0173	-0.0245	0.1160	-0.0553	0.6137	0.3452	0.2685	-2.3868
31	9.74	-0.01	3.4818	-10.6066	-0.0117	0.0755	-0.0994	0.6332	0.2726	0.3606	-3.1037
32	-0.00	-0.00	0.0436	-0.1197	-0.0248	0.1010	-0.0612	0.5044	0.1152	0.3891	-2.7462

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	132	1.10	2.3	0.0	84=OF33	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-0.00	-0.01	0.0391	-0.1259	-0.0462	0.1779	-0.0603	0.7248	0.2161	0.5086	-3.2186
2	1.95	-0.01	0.6737	-1.9905	-0.0264	0.1087	-0.0556	0.7213	0.2193	0.5020	-2.9547
3	1.95	-0.01	0.6766	-1.9981	-0.0265	0.1037	-0.0543	0.7223	0.2168	0.5054	-2.9501
4	3.90	-0.01	1.3635	-4.1149	-0.0262	0.1094	-0.0802	0.7277	0.2203	0.5074	-3.0179
5	5.83	-0.01	2.0697	-6.3824	-0.0177	0.0872	-0.0919	0.7477	0.2215	0.5262	-3.0837
6	7.77	-0.01	2.7898	-8.6784	-0.0194	0.0664	-0.0957	0.7797	0.2292	0.5506	-3.1107
7	9.74	-0.01	3.4210	-10.5233	-0.0129	0.0436	-0.0987	0.8101	0.2412	0.5689	-3.0761
8	11.77	-0.01	3.7245	-10.7556	-0.0032	0.0440	-0.0995	0.7936	0.2558	0.5378	-2.8878
9	13.82	-0.01	4.0245	-10.9375	-0.0123	0.0471	-0.0858	0.7972	0.2627	0.5345	-2.7177
10	15.84	-0.01	4.3505	-11.1267	-0.0165	0.0523	-0.0711	0.7923	0.2671	0.5252	-2.5576
11	15.85	-0.01	4.3083	-11.0345	-0.1125	0.4258	0.1506	0.7893	0.2911	0.4982	-2.5612
12	16.88	-0.01	4.4689	-11.1406	-0.1309	0.4721	0.1853	0.7836	0.3025	0.4812	-2.4818
14	18.94	-0.01	4.8630	-11.3064	-0.0332	0.1131	-0.0430	0.7911	0.3320	0.4592	-2.3250
15	19.97	-0.01	5.0994	-11.4326	-0.0258	0.1457	-0.0561	0.7939	0.3413	0.4526	-2.2418
16	21.01	-0.01	5.3923	-11.5903	-0.0171	0.1446	-0.0597	0.8131	0.3537	0.4593	-2.1694
17	22.06	-0.02	5.6853	-11.7249	0.0132	0.0898	-0.0608	0.7991	0.3593	0.4398	-2.0623
18	23.11	-0.01	5.9967	-11.8950	0.0239	0.0435	-0.0517	0.8124	0.3670	0.4454	-1.9836
19	24.14	-0.01	6.3162	-12.0442	0.0311	0.0976	-0.0117	0.8060	0.3669	0.4391	-1.9069
20	25.18	-0.01	6.6537	-12.2016	0.0233	0.1003	0.0106	0.8057	0.3694	0.4363	-1.8338
21	26.25	-0.01	7.0118	-12.4110	0.0462	0.0575	0.0538	0.8221	0.3795	0.4426	-1.7700
22	27.31	-0.00	7.4397	-12.6143	0.0252	0.0727	0.0540	0.8245	0.3815	0.4430	-1.6955
23	28.38	-0.00	7.8408	-12.7982	0.0369	0.0666	0.0744	0.8523	0.3893	0.4630	-1.6323
24	29.43	-0.00	8.1846	-12.9731	-0.0384	0.1710	0.0225	0.7976	0.3994	0.3982	-1.5851
25	30.47	-0.01	8.5249	-13.1458	-0.0628	0.2668	-0.0062	0.7866	0.4140	0.3726	-1.5421
26	19.98	-0.02	5.0666	-11.2458	-0.0418	0.2318	-0.0465	0.6100	0.4030	0.2070	-2.2196
27	9.74	-0.01	3.3731	-10.2977	-0.0125	0.0593	-0.0914	0.8021	0.3265	0.4756	-3.0529
28	9.74	-0.01	3.3783	-10.3571	-0.0077	0.0436	-0.0918	0.7985	0.2824	0.5161	-3.0658
29	-0.01	-0.01	0.0514	-0.1719	-0.0479	0.1939	-0.0543	0.7280	0.2067	0.5213	-3.3458

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)

PAGE 1 OF 1

SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	133	1.20	2.3	0.0	84W0F33	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-0.01	0.00	0.0393	-0.1465	0.0072	-0.0162	-0.0426	0.7057	0.1876	0.5181	-3.7225
2	-0.01	0.00	0.0354	-0.1374	0.0071	-0.0161	-0.0426	0.7056	0.1969	0.5087	-3.8774
3	0.00	-0.00	0.0241	-0.0378	-0.0154	0.0647	-0.0476	0.7296	0.2187	0.5109	-1.5661
4	1.95	0.00	0.6786	-2.0173	-0.0025	-0.0034	-0.0471	0.7339	0.2197	0.5141	-2.9726
5	3.89	-0.00	1.3476	-4.0974	0.0054	-0.0173	-0.0626	0.7419	0.2154	0.5265	-3.0485
6	5.83	-0.00	2.0151	-6.1792	0.0029	-0.0209	-0.0738	0.7741	0.2161	0.5581	-3.0664
7	7.78	-0.00	2.6573	-8.1151	0.0170	-0.0432	-0.0864	0.8068	0.2163	0.5906	-3.0539
8	9.73	0.00	3.3044	-9.9687	0.0175	-0.0777	-0.0890	0.8485	0.2245	0.6240	-3.0168
9	11.78	-0.01	3.6335	-10.2961	0.0248	-0.0420	-0.0878	0.8375	0.2347	0.6028	-2.8337
10	13.83	-0.00	3.9465	-10.4542	0.0173	-0.0361	-0.0829	0.8244	0.2458	0.5786	-2.6498
11	15.88	-0.00	4.3024	-10.6222	0.0166	-0.0545	-0.0730	0.7895	0.2740	0.5154	-2.4689
12	16.97	-0.00	4.5263	-10.7378	0.0027	-0.0254	-0.0638	0.7899	0.2926	0.5074	-2.3723
13	17.94	-0.00	4.7416	-10.8594	0.0151	-0.0315	-0.0493	0.8146	0.2912	0.5234	-2.2902
14	19.00	-0.00	4.9722	-10.9650	0.0094	-0.0456	-0.0543	0.8315	0.2966	0.5349	-2.2053
15	20.04	-0.01	5.2782	-11.1246	0.0183	-0.0046	-0.0476	0.8165	0.3099	0.5066	-2.1077
16	21.08	-0.01	5.5925	-11.2946	0.0561	-0.0762	-0.0586	0.8346	0.3378	0.4968	-2.0196
17	22.15	-0.01	5.9290	-11.4648	-0.0003	0.0717	-0.0501	0.8286	0.3516	0.4770	-1.9337
18	23.19	-0.01	6.2413	-11.5656	0.0275	0.0407	-0.0494	0.8637	0.3559	0.5079	-1.8531
19	24.27	-0.01	6.5868	-11.7704	0.0504	-0.0071	-0.0520	0.8143	0.3615	0.4528	-1.7870
20	25.34	-0.01	6.9424	-11.9432	0.0706	-0.0361	-0.0447	0.7546	0.3721	0.3825	-1.7203
21	26.35	-0.01	7.2892	-12.1371	0.0860	-0.0647	-0.0376	0.8392	0.3730	0.4662	-1.6651
22	27.41	-0.01	7.6777	-12.3242	0.1123	-0.1027	-0.0210	0.9164	0.3748	0.5416	-1.6052
23	28.47	-0.01	8.0667	-12.5386	0.0884	-0.0772	-0.0314	0.8156	0.3821	0.4335	-1.5544
24	29.59	-0.02	8.4375	-12.7164	0.0975	-0.0851	-0.0446	0.7646	0.3802	0.3844	-1.5071
25	30.57	-0.01	8.7761	-12.8915	0.1045	-0.0950	-0.0305	0.8059	0.3828	0.4231	-1.4689
26	20.35	-0.00	5.2461	-10.9513	0.0053	0.0036	-0.0408	0.7587	0.3559	0.4028	-2.0875
27	9.78	-0.00	3.2713	-9.8336	0.0211	-0.0463	-0.0816	0.8276	0.2626	0.5649	-3.0060
28	-0.00	-0.00	0.0243	-0.0714	-0.0201	0.0844	-0.0405	0.7255	0.2286	0.4969	-2.9409

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	134	1.34	2.3	0.0	84-0F33	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	0.01	-0.00	-0.0191	0.1227	-0.0164	0.0669	-0.0412	0.6622	0.2083	0.4539	-6.4179
2	1.94	-0.00	0.6297	-1.8612	-0.0256	0.0738	-0.0466	0.6724	0.2061	0.4663	-2.9555
3	3.91	-0.00	1.2813	-3.8806	-0.0110	0.0557	-0.0566	0.6854	0.2074	0.4779	-3.0286
4	5.91	-0.00	1.9114	-5.7557	-0.0061	0.0417	-0.0636	0.7222	0.1969	0.5253	-3.0113
5	7.87	-0.00	2.5175	-7.4909	0.0045	0.0110	-0.0776	0.7643	0.2070	0.5573	-2.9755
6	9.78	-0.00	3.1179	-9.1403	0.0092	-0.0155	-0.0837	0.8022	0.2201	0.5821	-2.9316
7	11.78	-0.00	3.5963	-10.1044	0.0202	-0.0460	-0.0801	0.8254	0.2345	0.5908	-2.8097
8	13.89	-0.00	3.9496	-10.2901	0.0168	-0.0390	-0.0675	0.8057	0.2517	0.5540	-2.6054
9	15.90	-0.00	4.3391	-10.4889	0.0113	-0.0306	-0.0591	0.7789	0.2578	0.5210	-2.4173
10	16.95	-0.00	4.5739	-10.6018	0.0072	-0.0046	-0.0555	0.8090	0.2654	0.5435	-2.3179
11	18.01	-0.00	4.8540	-10.7415	0.0097	-0.0071	-0.0495	0.8024	0.2718	0.5306	-2.2129
12	19.04	-0.00	5.1498	-10.8980	0.0068	0.0001	-0.0409	0.7748	0.2780	0.4968	-2.1162
13	20.10	-0.01	5.4457	-11.0192	0.0077	0.0082	-0.0361	0.7602	0.2844	0.4758	-2.0235
14	21.13	-0.01	5.7693	-11.1974	0.0218	0.0005	-0.0396	0.7516	0.2868	0.4648	-1.9409
15	22.18	-0.00	6.0610	-11.3218	0.0190	0.0316	0.0201	0.7434	0.2916	0.4519	-1.8688
16	23.25	-0.01	6.3780	-11.4740	0.0404	-0.0028	-0.0450	0.7279	0.2955	0.4324	-1.7998
17	24.36	-0.01	6.7262	-11.6419	0.0445	-0.0069	-0.0406	0.7692	0.3029	0.4663	-1.7308
18	25.33	-0.01	7.0394	-11.7991	0.0483	-0.0093	-0.0441	0.7754	0.3124	0.4631	-1.6762
19	20.11	-0.01	5.4443	-10.9135	0.0031	0.0317	-0.0330	0.5694	0.3072	0.2622	-2.0046
20	9.80	-0.01	3.1320	-9.1967	0.0077	0.0090	-0.0809	0.7888	0.2796	0.5093	-2.9364
21	0.01	-0.00	-0.0020	0.0749	-0.0217	0.0876	-0.0410	0.6595	0.2299	0.4296	-36.6163

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	139	0.80	2.3	0.0	B4=DF32	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	0.00	-0.00	0.0250	-0.0365	-0.0196	0.0501	-0.0129	0.2568	0.0868	0.1700	-1.4606
2	2.03	-0.00	0.2746	-0.3168	-0.0169	0.0585	-0.0133	0.2640	0.0874	0.1766	-1.1527
3	4.11	-0.00	0.5705	-0.7352	-0.0187	0.0752	-0.0136	0.2751	0.0893	0.1858	-1.2884
4	6.06	-0.00	0.9204	-1.3567	-0.0200	0.0861	-0.0136	0.2904	0.0965	0.1938	-1.4748
5	8.06	-0.00	1.3310	-2.1751	-0.0216	0.0971	-0.0118	0.3107	0.1055	0.2052	-1.6342
6	10.07	-0.00	1.7947	-3.1380	-0.0232	0.1048	-0.0116	0.3273	0.1096	0.2177	-1.7485
7	12.10	-0.01	2.2889	-4.1813	-0.0317	0.1332	-0.0024	0.3543	0.1188	0.2355	-1.8268
8	14.10	-0.00	2.8442	-5.3761	-0.0360	0.1350	0.0085	0.3719	0.1339	0.2380	-1.8902
9	16.05	-0.00	3.4641	-6.7540	-0.0361	0.1078	0.0156	0.3627	0.1662	0.1965	-1.9497
10	17.07	-0.00	3.7666	-7.3660	-0.0361	0.1095	0.0209	0.3787	0.1750	0.2037	-1.9556
11	18.07	-0.00	4.0518	-7.9492	-0.0402	0.1109	0.0227	0.3813	0.1819	0.1994	-1.9619
12	19.11	-0.00	4.3644	-8.5763	-0.0421	0.1182	0.0247	0.3835	0.1930	0.1905	-1.9641
13	20.10	-0.00	4.6706	-9.1534	-0.0418	0.1328	0.0210	0.3938	0.1898	0.2040	-1.9598
14	21.09	-0.00	4.9765	-9.7432	-0.0201	0.0944	0.0137	0.3972	0.2087	0.1885	-1.9578
15	22.11	-0.00	5.2844	-10.2853	-0.0303	0.1211	0.0100	0.4051	0.2192	0.1859	-1.9463
16	23.14	-0.01	5.5706	-10.7869	0.0007	0.0762	0.0043	0.4031	0.2167	0.1864	-1.9368
17	24.14	-0.01	5.8872	-11.3350	0.0515	-0.0254	0.0017	0.4064	0.2423	0.1641	-1.9254
18	25.13	-0.00	6.1551	-11.7574	0.0966	-0.1187	0.0098	0.4126	0.2526	0.1600	-1.9102
19	26.14	-0.00	6.5047	-12.3307	0.1488	-0.3444	0.0352	0.4113	0.2730	0.1383	-1.8957
20	27.19	0.00	6.7828	-12.7441	0.2043	-0.5561	0.0765	0.4036	0.2898	0.1138	-1.8789
21	28.25	0.02	7.0437	-13.0417	0.3473	-0.7356	0.1620	0.4009	0.2938	0.1070	-1.8515
22	29.24	0.02	7.3312	-13.4857	0.3587	-0.8050	0.1933	0.3939	0.3054	0.0885	-1.8395
23	30.22	0.03	7.5226	-13.5867	0.4901	-1.0237	0.2973	0.4022	0.3202	0.0820	-1.8061
24	20.05	-0.00	4.6915	-9.3390	-0.0391	0.1127	0.0212	0.3334	0.1933	0.1401	-1.9906
25	10.07	-0.00	1.8070	-3.2832	-0.0170	0.0846	-0.0189	0.2737	0.1593	0.1144	-1.8178
26	-0.00	-0.00	0.0412	-0.1305	-0.0155	0.0438	-0.0146	0.2297	0.0867	0.1430	-3.1709

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	140	0.85	2.3	0.0	B4W0F32	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-0.00	-0.00	0.0343	-0.0965	-0.0186	0.0537	-0.0157	0.2407	0.0868	0.1539	-2.8157
2	2.03	-0.00	0.2904	-0.3807	-0.0184	0.0655	-0.0179	0.2480	0.0886	0.1594	-1.3111
3	4.05	-0.00	0.5819	-0.8023	-0.0199	0.0768	-0.0181	0.2541	0.0877	0.1664	-1.3789
4	6.11	-0.00	0.9458	-1.4702	-0.0195	0.0932	-0.0181	0.2692	0.0950	0.1742	-1.5544
5	8.10	-0.01	1.3702	-2.3212	-0.0206	0.1030	-0.0181	0.2866	0.1117	0.1749	-1.6940
6	10.06	-0.01	1.8214	-3.2663	-0.0221	0.1206	-0.0178	0.3041	0.1111	0.1929	-1.7933
7	12.08	-0.01	2.3446	-4.3981	-0.0294	0.1412	-0.0124	0.3206	0.1285	0.1921	-1.8758
8	14.09	-0.01	2.9137	-5.6511	-0.0396	0.1592	0.0001	0.3327	0.1469	0.1859	-1.9395
9	16.10	-0.00	3.5232	-6.9878	-0.0369	0.1162	0.0102	0.3377	0.1597	0.1780	-1.9834
10	17.10	-0.00	3.8277	-7.6092	-0.0408	0.1198	0.0153	0.3507	0.1685	0.1822	-1.9879
11	18.10	-0.00	4.1369	-8.2421	-0.0386	0.1142	0.0153	0.3602	0.1757	0.1845	-1.9923
12	19.06	-0.00	4.4313	-8.8091	-0.0441	0.1269	0.0172	0.3666	0.1952	0.1714	-1.9879
13	20.08	-0.00	4.7440	-9.4146	-0.0485	0.1454	0.0154	0.3762	0.1992	0.1770	-1.9845
14	21.11	-0.00	5.0632	-10.0005	-0.0341	0.1163	0.0117	0.3836	0.2080	0.1756	-1.9751
15	22.09	-0.00	5.3630	-10.5239	-0.0213	0.1089	0.0081	0.3866	0.2269	0.1597	-1.9623
16	23.11	-0.00	5.6562	-11.0310	0.0162	0.0393	0.0075	0.3867	0.2176	0.1690	-1.9503
17	24.12	-0.01	5.9974	-11.5995	0.0403	0.0051	0.0071	0.3933	0.2328	0.1606	-1.9341
18	25.14	-0.00	6.2710	-12.0303	0.1030	-0.1332	0.0216	0.3966	0.2465	0.1501	-1.9184
19	26.14	0.00	6.5872	-12.5040	0.1765	-0.3222	0.0545	0.4004	0.2626	0.1378	-1.8982
20	27.16	0.02	6.7701	-12.5793	0.2993	-0.6189	0.2006	0.4076	0.2790	0.1286	-1.8581
21	28.22	0.01	6.8196	-12.2403	0.2744	-0.3282	0.3275	0.4461	0.2987	0.1474	-1.7949
22	29.28	0.01	7.2101	-12.8697	0.3294	-0.4321	0.3239	0.4355	0.3420	0.0936	-1.7858
23	30.25	0.02	7.7042	-13.9172	0.3362	-0.6966	0.2622	0.3864	0.3490	0.0374	-1.8064
24	20.06	-0.00	4.7607	-9.5434	-0.0461	0.1269	0.0121	0.3258	0.2537	0.0721	-2.0044
25	10.06	-0.00	1.8545	-3.3943	-0.0163	0.0875	-0.0234	0.2743	0.1691	0.1052	-1.8303
26	-0.00	-0.00	0.0420	-0.1329	-0.0136	0.0422	-0.0209	0.2303	0.0799	0.1504	-3.1661

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	141	0.92	2.3	0.0	B4W0F32	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-0.00	-0.00	0.0395	-0.1096	-0.0163	0.0529	-0.0198	0.2394	0.0864	0.1530	-2.7749
2	2.05	-0.00	0.2926	-0.3829	-0.0170	0.0650	-0.0201	0.2461	0.0762	0.1699	-1.3087
3	4.09	-0.00	0.5992	-0.8306	-0.0206	0.0792	-0.0204	0.2534	0.0903	0.1631	-1.3863
4	6.07	-0.00	0.9655	-1.5068	-0.0189	0.0869	-0.0205	0.2674	0.1063	0.1611	-1.5607
5	8.08	-0.01	1.4079	-2.4131	-0.0168	0.0987	-0.0202	0.2861	0.1129	0.1732	-1.7148
6	10.08	-0.01	1.8848	-3.4300	-0.0352	0.1309	-0.0201	0.3051	0.1252	0.1798	-1.8198
7	12.06	-0.01	2.4182	-4.6130	-0.0253	0.1332	-0.0182	0.3207	0.1273	0.1934	-1.9076
8	14.06	-0.01	3.0015	-5.9048	-0.0376	0.1558	-0.0048	0.3402	0.1379	0.2023	-1.9673
9	16.10	-0.01	3.6221	-7.2579	-0.0610	0.2205	0.0090	0.3545	0.1600	0.1945	-2.0038
10	17.06	-0.01	3.9227	-7.9095	-0.0718	0.2352	0.0173	0.3539	0.1634	0.1905	-2.0163
11	18.07	-0.01	4.2706	-8.6214	-0.0796	0.2626	0.0242	0.3651	0.1689	0.1962	-2.0188
12	19.09	-0.00	4.5803	-9.2268	-0.0829	0.2594	0.0290	0.3744	0.1823	0.1921	-2.0145
13	20.04	-0.00	4.8757	-9.7674	-0.0769	0.2406	0.0204	0.3864	0.1892	0.1972	-2.0033
14	21.11	-0.01	5.2049	-10.3886	-0.0852	0.2760	0.0092	0.3917	0.1933	0.1984	-1.9959
15	22.09	-0.01	5.5041	-10.9256	-0.0608	0.2296	0.0022	0.3791	0.2240	0.1551	-1.9850
16	23.07	-0.01	5.7975	-11.3869	-0.0377	0.1699	0.0001	0.3892	0.2215	0.1676	-1.9641
17	24.12	-0.01	6.1330	-11.6999	-0.0024	0.1376	0.0012	0.3945	0.2289	0.1656	-1.9403
18	25.12	-0.01	6.4529	-12.3503	0.0438	0.0643	0.0137	0.3928	0.2418	0.1510	-1.9139
19	26.20	-0.00	6.7749	-12.7572	0.1194	-0.1089	0.0794	0.3962	0.2542	0.1420	-1.8830
20	27.25	0.01	7.0592	-12.9865	0.1765	-0.2269	0.1704	0.4010	0.2711	0.1299	-1.8397
21	28.26	0.01	7.4052	-13.1372	0.2041	-0.2048	0.2273	0.4030	0.2716	0.1314	-1.7748
22	29.29	0.00	7.8690	-13.5360	0.1771	-0.1738	0.1926	0.3791	0.2873	0.0919	-1.7202
23	29.27	0.00	7.8044	-13.5619	0.1940	-0.2089	0.1919	0.3757	0.3098	0.0659	-1.7377
24	30.32	0.00	8.1449	-13.6522	0.1669	-0.0653	0.2230	0.3688	0.3031	0.0657	-1.6762
25	20.07	-0.00	4.9031	-9.9410	-0.0729	0.2279	0.0173	0.3355	0.2474	0.0881	-2.0275
26	10.06	-0.01	1.8941	-3.4974	-0.0189	0.1126	-0.0249	0.2837	0.1412	0.1425	-1.8465
27	-0.00	-0.00	0.0491	-0.1476	-0.0128	0.0437	-0.0215	0.2298	0.0840	0.1458	-3.0050

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	142	0.94	2.3	0.0	B4B0F32	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-0.00	-0.00	0.0455	-0.1213	-0.0170	0.0533	-0.0194	0.2419	0.0745	0.1674	-2.6641
2	-0.00	-0.00	0.0434	-0.1184	-0.0171	0.0516	-0.0195	0.2399	0.0817	0.1582	-2.7264
3	2.02	-0.00	0.2920	-0.3707	-0.0179	0.0641	-0.0199	0.2452	0.0814	0.1639	-1.2696
4	4.04	-0.00	0.5921	-0.8017	-0.0168	0.0749	-0.0217	0.2550	0.0760	0.1791	-1.3539
5	4.04	-0.00	0.5915	-0.8045	-0.0180	0.0748	-0.0217	0.2548	0.0832	0.1716	-1.3601
6	6.08	-0.00	0.9726	-1.4922	-0.0171	0.0894	-0.0201	0.2692	0.0925	0.1767	-1.5341
7	8.07	-0.01	1.4247	-2.4239	-0.0187	0.1050	-0.0201	0.2875	0.1102	0.1774	-1.7014
8	10.05	-0.01	1.9188	-3.5022	-0.0180	0.1102	-0.0182	0.3038	0.1183	0.1855	-1.8252
9	12.07	-0.01	2.4497	-4.6874	-0.0298	0.1601	-0.0227	0.3217	0.1396	0.1821	-1.9134
10	14.07	-0.01	3.0323	-5.9977	-0.0375	0.1481	-0.0063	0.3362	0.1436	0.1925	-1.9788
11	16.07	-0.01	3.6600	-7.3834	-0.0498	0.1782	0.0079	0.3483	0.1551	0.1931	-2.0175
12	17.11	-0.01	4.0091	-8.1314	-0.0642	0.2117	0.0169	0.3630	0.1629	0.2001	-2.0282
13	18.06	-0.01	4.3163	-8.7733	-0.0812	0.2618	0.0255	0.3713	0.1707	0.2006	-2.0326
14	19.07	-0.01	4.6551	-9.4465	-0.0934	0.2996	0.0291	0.3767	0.1800	0.1968	-2.0293
15	20.09	-0.01	4.9704	-10.0804	-0.0975	0.3079	0.0402	0.3732	0.1803	0.1930	-2.0281
16	21.10	-0.00	5.2933	-10.6258	-0.0788	0.2301	0.0348	0.3865	0.1970	0.1895	-2.0074
17	22.05	-0.01	5.5872	-11.0974	-0.0562	0.2020	0.0180	0.3959	0.1973	0.1987	-1.9862
18	23.12	-0.01	5.9309	-11.6446	-0.0395	0.1871	0.0017	0.3986	0.2058	0.1927	-1.9634
19	24.10	-0.01	6.2648	-12.0662	0.0165	0.0954	0.0121	0.3973	0.2210	0.1762	-1.9292
20	25.16	-0.01	6.5763	-12.4550	0.0610	0.0306	0.0276	0.3909	0.2412	0.1497	-1.8939
21	26.21	-0.01	6.9338	-12.8571	0.1239	-0.0933	0.0785	0.3918	0.2520	0.1398	-1.8548
22	27.20	0.00	7.2679	-13.1199	0.1762	-0.2303	0.1412	0.3900	0.2583	0.1316	-1.8008
23	28.27	0.00	7.6772	-13.3631	0.2162	-0.2678	0.1834	0.3901	0.2669	0.1232	-1.7406
24	29.35	0.00	8.0392	-13.5627	0.1362	-0.1245	0.1661	0.3864	0.2831	0.0834	-1.6871
25	30.41	0.00	8.4549	-13.7815	0.1262	-0.0370	0.1710	0.3589	0.2871	0.0718	-1.6308
26	20.06	-0.01	5.0032	-10.2028	-0.0925	0.2975	0.0357	0.3409	0.2365	0.1045	-2.0393
27	10.07	-0.01	1.9318	-3.5695	-0.0124	0.0864	-0.0199	0.2863	0.1466	0.1396	-1.8477
28	-0.00	-0.00	0.0462	-0.1308	-0.0138	0.0489	-0.0180	0.2353	0.0789	0.1563	-2.8327

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	143	0.96	2.3	0.0	B4W0F32	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-0.00	-0.00	0.0449	-0.1236	-0.0146	0.0512	-0.0160	0.2553	0.0738	0.1815	-2.7506
2	2.04	-0.00	0.3075	-0.3873	-0.0108	0.0570	-0.0180	0.2599	0.0803	0.1796	-1.2884
3	4.06	-0.00	0.6047	-0.8366	-0.0153	0.0662	-0.0199	0.2718	0.0717	0.2001	-1.3835
4	6.10	-0.00	0.9937	-1.5418	-0.0165	0.0838	-0.0183	0.2831	0.0837	0.1994	-1.5516
5	8.10	-0.01	1.4301	-2.4430	-0.0203	0.1044	-0.0182	0.2898	0.0995	0.1902	-1.7083
6	8.10	-0.01	1.4526	-2.5021	-0.0166	0.0968	-0.0182	0.2983	0.0988	0.1995	-1.7225
7	10.06	-0.01	1.9670	-3.6506	-0.0156	0.1069	-0.0178	0.3234	0.1119	0.2115	-1.8559
8	10.06	-0.01	1.9305	-3.5609	-0.0184	0.1113	-0.0179	0.3103	0.1210	0.1893	-1.8445
9	12.05	-0.01	2.5032	-4.7746	-0.0206	0.1100	-0.0083	0.3328	0.1319	0.2009	-1.9074
10	14.06	-0.01	3.0651	-6.0532	-0.0381	0.1629	-0.0157	0.3647	0.1452	0.1995	-1.9749
11	16.09	-0.01	3.7069	-7.4883	-0.0459	0.1632	0.0052	0.3672	0.1532	0.2141	-2.0201
12	17.07	-0.00	4.0247	-8.1811	-0.0586	0.1798	0.0133	0.3722	0.1617	0.2105	-2.0327
13	18.07	-0.00	4.3660	-8.8914	-0.0693	0.2081	0.0199	0.3824	0.1719	0.2105	-2.0365
14	19.09	-0.00	4.7032	-9.5618	-0.0752	0.2416	0.0316	0.3909	0.1801	0.2109	-2.0330
15	20.06	-0.01	5.0264	-10.1934	-0.0874	0.2874	0.0365	0.3917	0.1858	0.2059	-2.0280
16	21.07	-0.01	5.3712	-10.7898	-0.0945	0.3307	0.0383	0.4053	0.1923	0.2130	-2.0088
17	22.09	-0.01	5.7253	-11.3586	-0.0514	0.2291	0.0342	0.4109	0.2090	0.2019	-1.9039
18	23.13	-0.01	6.0858	-11.8669	-0.0023	0.1473	0.0222	0.4114	0.2240	0.1874	-1.9499
19	24.14	-0.01	6.4628	-12.3813	0.0600	0.0196	0.0273	0.4035	0.2389	0.1646	-1.9158
20	25.21	-0.01	6.8188	-12.7423	0.1074	-0.0552	0.0484	0.4025	0.2406	0.1619	-1.8693
21	26.20	-0.01	7.1095	-12.9965	0.1362	-0.0784	0.0804	0.3936	0.2579	0.1357	-1.8280
22	27.24	-0.00	7.4190	-13.2041	0.1522	-0.1239	0.1183	0.3854	0.2664	0.1190	-1.7798
23	27.26	-0.01	7.5412	-13.7821	0.1507	-0.0892	0.0976	0.3970	0.2527	0.1443	-1.7613
24	28.32	-0.00	7.8820	-13.5072	0.1920	-0.1718	0.1471	0.3813	0.2773	0.1039	-1.7137
25	28.32	-0.00	7.8843	-13.4972	0.1862	-0.1655	0.1402	0.3803	0.2721	0.1082	-1.7119
26	29.38	-0.01	8.3416	-13.7010	0.1045	-0.0020	0.1016	0.3608	0.2734	0.0875	-1.6425
27	30.45	-0.01	8.7236	-13.8220	0.1149	0.0295	0.0852	0.3674	0.2741	0.0733	-1.5844
28	20.11	-0.00	5.0617	-10.3477	-0.0860	0.2676	0.0333	0.3589	0.2542	0.1047	-2.0443
29	10.09	-0.01	1.9824	-3.7083	-0.0113	0.0837	-0.0180	0.2941	0.1737	0.1204	-1.8706
30	-0.00	-0.00	0.0520	-0.1457	-0.0168	0.0468	-0.0144	0.2448	0.0766	0.1682	-2.8033

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RK10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	144	0.98	2.3	0.0	B4=0F32	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-0.00	-0.00	0.0510	-0.1392	-0.0143	0.0391	-0.0143	0.2730	0.0803	0.1927	-2.7286
2	2.06	-0.00	0.3194	-0.4471	-0.0149	0.0509	-0.0163	0.2814	0.0851	0.1963	-1.3999
3	4.04	-0.00	0.6352	-0.9466	-0.0157	0.0600	-0.0164	0.2970	0.0880	0.2091	-1.4906
4	6.04	-0.00	1.0149	-1.6405	-0.0104	0.0697	-0.0149	0.3039	0.1015	0.2023	-1.6164
5	8.07	-0.01	1.4941	-2.6998	-0.0109	0.0899	-0.0146	0.3314	0.1039	0.2276	-1.8078
6	10.07	-0.01	2.0342	-3.8578	-0.0155	0.1055	-0.0129	0.3423	0.1225	0.2197	-1.8965
7	12.06	-0.01	2.5925	-5.1701	-0.0173	0.1061	-0.0079	0.3670	0.1234	0.2436	-1.9942
8	14.06	-0.01	3.1765	-6.5086	-0.0263	0.1230	-0.0122	0.3843	0.1438	0.2405	-2.0477
9	16.05	-0.01	3.7569	-7.7270	-0.0390	0.1425	-0.0027	0.4023	0.1624	0.2399	-2.0568
10	17.07	-0.00	4.1037	-8.4319	-0.0469	0.1548	0.0114	0.4119	0.1682	0.2438	-2.0547
11	18.11	-0.00	4.3974	-9.0137	-0.0587	0.1843	0.0179	0.4199	0.1775	0.2425	-2.0498
12	19.07	-0.00	4.7732	-9.7537	-0.0611	0.2010	0.0211	0.4324	0.1808	0.2515	-2.0434
13	20.07	-0.01	5.1033	-10.3519	-0.0570	0.2214	0.0228	0.4331	0.2020	0.2311	-2.0285
14	21.13	-0.01	5.4629	-10.9252	-0.0436	0.2315	0.0244	0.4453	0.2184	0.2269	-1.9999
15	22.12	-0.01	5.8194	-11.4735	-0.0000	0.1772	0.0285	0.4332	0.2685	0.1647	-1.9716
16	23.13	-0.01	6.2602	-12.0728	0.0283	0.1362	0.0279	0.4531	0.2661	0.1870	-1.9285
17	24.19	-0.01	6.6181	-12.5466	0.0567	0.0743	0.0303	0.4357	0.2687	0.1669	-1.8961
18	25.22	-0.01	6.9936	-12.9437	0.0626	0.0531	0.0326	0.4305	0.2640	0.1665	-1.8508
19	26.23	-0.01	7.4356	-13.3441	0.1047	-0.0202	0.0397	0.4324	0.2541	0.1783	-1.7946
20	27.29	-0.01	7.7976	-13.5770	0.1071	-0.0165	0.0401	0.4143	0.2677	0.1466	-1.7412
21	28.34	-0.02	8.2634	-13.8026	0.0890	0.0725	0.0366	0.4048	0.2656	0.1392	-1.6703
22	29.38	-0.02	8.6227	-13.8547	0.0511	0.1582	0.0204	0.3840	0.2696	0.1144	-1.6068
23	30.54	-0.02	9.0357	-13.6839	0.0839	0.1158	0.0236	0.3671	0.2799	0.0872	-1.5366
24	20.08	-0.01	5.1439	-10.4859	-0.0441	0.1827	0.0116	0.4120	0.2709	0.1411	-2.0385
25	10.03	-0.00	2.0162	-3.9530	-0.0104	0.0728	-0.0145	0.3157	0.2001	0.1156	-1.9606
26	10.04	-0.00	2.0097	-3.8634	-0.0126	0.0783	-0.0114	0.3207	0.1589	0.1618	-1.9224
27	10.03	-0.01	2.0440	-4.0016	-0.0118	0.0799	-0.0112	0.3388	0.1358	0.2030	-1.9577
28	-0.00	-0.00	0.0535	-0.1620	-0.0154	0.0350	-0.0096	0.2679	0.0867	0.1811	-3.0277

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	150	1.10	2.3	0.0	84WOF32	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-0.00	-0.00	0.0028	-0.0319	-0.0322	0.1153	-0.0130	0.5047	0.1516	0.3531	-11.2488
2	2.02	-0.01	0.2817	-0.3972	-0.0323	0.1271	-0.0061	0.5177	0.1645	0.3532	-1.4104
3	4.04	-0.01	0.6022	-0.9081	-0.0274	0.1267	-0.0063	0.5348	0.1657	0.3691	-1.5088
4	6.03	-0.01	1.0014	-1.6926	-0.0302	0.1453	-0.0062	0.5570	0.1729	0.3842	-1.6902
5	8.04	-0.01	1.4517	-2.6178	-0.0279	0.1377	-0.0049	0.5876	0.1790	0.4086	-1.8033
6	8.03	-0.01	1.4611	-2.6878	-0.0326	0.1546	-0.0047	0.5790	0.1953	0.3837	-1.8395
7	10.02	-0.01	1.9599	-3.7560	-0.0289	0.1645	-0.0030	0.6030	0.2085	0.3945	-1.9164
8	12.06	-0.01	2.4974	-4.8874	-0.0245	0.1538	0.0013	0.6172	0.2165	0.4007	-1.9570
9	14.04	-0.01	3.0517	-6.0065	-0.0270	0.1447	0.0069	0.6304	0.2238	0.4065	-1.9682
10	16.05	-0.00	3.6286	-7.1719	-0.0485	0.1690	0.0213	0.6507	0.2356	0.4151	-1.9765
11	17.06	-0.01	3.9653	-7.8257	-0.0645	0.2355	0.0175	0.6594	0.2486	0.4108	-1.9735
12	18.08	-0.01	4.2791	-8.3480	-0.0694	0.2389	0.0201	0.6682	0.2462	0.4220	-1.9509
13	19.09	-0.01	4.5979	-8.8601	-0.0700	0.2356	0.0270	0.6768	0.2589	0.4179	-1.9278
14	20.09	-0.01	4.9330	-9.3715	-0.0633	0.2353	0.0253	0.6786	0.2664	0.4122	-1.8998
15	21.13	-0.01	5.3155	-9.9719	-0.0499	0.2070	0.0264	0.6763	0.2811	0.3952	-1.8768
16	22.17	-0.01	5.6786	-10.4744	-0.0340	0.1975	0.0261	0.6733	0.2896	0.3837	-1.8445
17	22.19	-0.01	5.7286	-10.4428	-0.0320	0.2415	0.0033	0.6611	0.2816	0.3795	-1.8229
18	23.19	-0.02	6.0991	-10.8430	-0.0191	0.2263	0.0013	0.6555	0.2911	0.3643	-1.7778
19	24.27	-0.02	6.5084	-11.3364	-0.0287	0.2567	-0.0005	0.6550	0.2951	0.3599	-1.7418
20	25.27	-0.02	6.9262	-11.7881	-0.0326	0.2612	-0.0011	0.6471	0.2953	0.3518	-1.7028
21	26.30	-0.01	7.3167	-12.2157	0.0315	0.1068	0.0174	0.6401	0.3110	0.3291	-1.6696
22	27.36	-0.01	7.7338	-12.5871	0.0563	0.0394	0.0204	0.6223	0.3037	0.3186	-1.6275
23	28.39	-0.01	8.1631	-12.9370	0.0506	0.0435	0.0224	0.6093	0.2985	0.3108	-1.5848
24	29.46	-0.01	8.5864	-13.2743	0.0536	0.0444	0.0217	0.5966	0.3016	0.2950	-1.5460
25	30.56	-0.01	9.0260	-13.5950	-0.0058	0.1689	0.0101	0.5818	0.3029	0.2789	-1.5062
26	20.11	-0.01	5.0015	-9.5940	-0.0520	0.2154	0.0198	0.6347	0.3019	0.3328	-1.9182
27	10.03	-0.01	1.9943	-3.9051	-0.0277	0.1207	0.0068	0.5749	0.2716	0.3032	-1.9582
28	-0.00	-0.00	0.0056	-0.0364	-0.0207	0.0453	0.0080	0.5099	0.1984	0.3114	-6.5374

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	151	1.20	2.3	0.0	B4W0F32	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
0	0.00	0.00	-0.0222	0.0658	-0.0079	0.0016	0.0138	0.5370	0.1782	0.3588	-2.9578
1	0.00	0.00	-0.0203	0.0629	-0.0078	0.0032	0.0152	0.5372	0.1839	0.3533	-3.0976
2	0.00	0.00	-0.0223	0.0624	-0.0079	0.0049	0.0180	0.5390	0.1843	0.3546	-2.8032
3	2.04	0.00	0.2788	-0.3611	-0.0094	0.0181	0.0191	0.5466	0.1786	0.3680	-1.2951
4	2.04	0.00	0.2714	-0.3301	-0.0095	0.0200	0.0192	0.5454	0.1867	0.3587	-1.2161
5	3.00	-0.00	0.4190	-0.5506	-0.0106	0.0256	0.0191	0.5480	0.1851	0.3629	-1.3147
6	4.05	-0.00	0.6036	-0.8659	-0.0059	0.0237	0.0204	0.5529	0.1894	0.3634	-1.4351
7	6.06	0.00	1.0042	-1.6441	-0.0157	0.0377	0.0245	0.5779	0.1899	0.3879	-1.6372
8	8.03	-0.00	1.4473	-2.5420	-0.0124	0.0442	0.0246	0.6008	0.1959	0.4050	-1.7563
9	10.06	-0.00	1.9396	-3.5626	-0.0047	0.0456	0.0247	0.6175	0.2041	0.4134	-1.8360
10	12.06	-0.00	2.4638	-4.6064	-0.0044	0.0481	0.0260	0.6297	0.2128	0.4169	-1.8696
11	14.07	-0.00	3.0222	-5.6825	-0.0017	0.0523	0.0273	0.6369	0.2211	0.4158	-1.8803
12	16.12	-0.00	3.6305	-6.7589	-0.0130	0.0678	0.0340	0.6464	0.2266	0.4197	-1.8617
13	16.12	-0.00	3.6358	-6.7780	-0.0130	0.0678	0.0340	0.6430	0.2352	0.4078	-1.8642
14	16.12	-0.00	3.6511	-6.8083	-0.0091	0.0640	0.0355	0.6442	0.2393	0.4049	-1.8647
15	17.11	-0.00	3.9332	-7.2507	-0.0153	0.0734	0.0365	0.6475	0.2403	0.4071	-1.8435
16	18.14	-0.00	4.2773	-7.7749	-0.0259	0.1181	0.0285	0.6525	0.2468	0.4057	-1.8177
17	19.15	-0.00	4.6302	-8.2258	-0.0403	0.1538	0.0255	0.6546	0.2485	0.4061	-1.7766
18	20.21	-0.01	5.0144	-8.6718	-0.0296	0.1468	0.0181	0.6547	0.2512	0.4035	-1.7294
19	21.23	-0.01	5.3937	-9.0728	-0.0229	0.1260	0.0228	0.6493	0.2546	0.3947	-1.6821
20	22.28	-0.01	5.7989	-9.4694	-0.0189	0.1177	0.0234	0.6465	0.2558	0.3907	-1.6330
21	23.32	-0.01	6.2101	-9.9137	0.0053	0.0917	0.0255	0.6433	0.2589	0.3845	-1.5964
22	24.39	-0.01	6.6145	-10.3545	0.0264	0.0617	0.0289	0.6413	0.2668	0.3745	-1.5654
23	25.38	-0.01	7.0073	-10.7785	0.0541	0.0239	0.0309	0.6411	0.2721	0.3690	-1.5382
24	26.45	-0.01	7.4468	-11.1804	0.0821	-0.0368	0.0353	0.6333	0.2753	0.3579	-1.5014
25	27.49	-0.01	7.8726	-11.5821	0.1252	-0.1197	0.0395	0.6272	0.2784	0.3488	-1.4712
26	28.55	-0.01	8.2999	-11.9899	0.1126	-0.0800	0.0360	0.6225	0.2849	0.3376	-1.4446
27	29.60	-0.01	8.7298	-12.4024	0.1359	-0.1337	0.0415	0.6149	0.2874	0.3275	-1.4207
28	30.66	-0.01	9.1658	-12.8277	0.1826	-0.2177	0.0456	0.6233	0.2895	0.3338	-1.3965
29	22.27	-0.01	5.8060	-9.5441	-0.0092	0.1001	0.0249	0.6256	0.2834	0.3422	-1.6438
30	10.05	-0.00	1.9548	-3.6408	-0.0083	0.0422	0.0329	0.6009	0.2534	0.3475	-1.8625
31	-0.00	0.00	-0.0141	0.0301	-0.0051	-0.0125	0.0317	0.5323	0.2045	0.3278	-2.1353

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	152	1.30	2.3	0.0	B4=OF32	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	0.00	0.00	-0.0178	0.0581	-0.0134	-0.0126	0.0348	0.5198	0.1863	0.3335	-3.2617
2	2.05	-0.00	0.2748	-0.3240	0.0001	0.0077	0.0361	0.5245	0.1877	0.3368	-1.1790
3	4.02	0.00	0.5974	-0.8385	-0.0086	0.0161	0.0372	0.5323	0.1883	0.3440	-1.4036
4	6.04	-0.00	0.9863	-1.5552	-0.0032	0.0261	0.0372	0.5575	0.1891	0.3683	-1.5768
5	8.05	-0.00	1.4320	-2.4443	-0.0064	0.0466	0.0360	0.5805	0.1930	0.3875	-1.7069
6	10.04	-0.00	1.8968	-3.3621	-0.0131	0.0611	0.0361	0.5963	0.2006	0.3957	-1.7707
7	12.07	-0.00	2.4277	-4.3571	-0.0033	0.0533	0.0372	0.6052	0.2090	0.3962	-1.7947
8	14.10	-0.00	2.9756	-5.3381	-0.0028	0.0516	0.0397	0.6096	0.2163	0.3934	-1.7920
9	16.15	-0.00	3.5537	-6.2402	-0.0031	0.0535	0.0433	0.6232	0.2222	0.4010	-1.7560
10	17.15	-0.00	3.8958	-6.6955	-0.0060	0.0607	0.0457	0.6223	0.2226	0.3997	-1.7186
11	18.17	0.00	4.2516	-7.1087	-0.0126	0.0625	0.0477	0.6234	0.2269	0.3965	-1.6728
12	19.25	-0.00	4.6408	-7.5505	-0.0114	0.0822	0.0434	0.6277	0.2321	0.3956	-1.6278
13	20.24	-0.00	5.0026	-7.9370	-0.0142	0.0915	0.0402	0.6284	0.2352	0.3932	-1.5866
14	21.31	-0.01	5.3943	-8.3552	-0.0082	0.1060	0.0371	0.6287	0.2418	0.3868	-1.5489
15	22.35	-0.01	5.7759	-8.7624	-0.0062	0.1071	0.0311	0.6302	0.2470	0.3832	-1.5136
16	23.40	-0.01	6.1798	-9.1567	0.0060	0.0973	0.0331	0.6346	0.2549	0.3797	-1.4817
17	24.46	-0.01	6.5773	-9.5316	0.0258	0.0518	0.0360	0.6337	0.2579	0.3758	-1.4492
18	25.51	-0.00	6.9595	-9.8653	0.0474	0.0011	0.0414	0.6317	0.2638	0.3679	-1.4178
19	24.54	-0.00	7.3699	-10.2272	0.0775	-0.0603	0.0494	0.6326	0.2684	0.3642	-1.3877
20	27.58	-0.00	7.8005	-10.6185	0.0967	-0.1056	0.0561	0.6330	0.2738	0.3592	-1.3613
21	28.62	-0.00	8.2173	-11.0104	0.1075	-0.1166	0.0523	0.6356	0.2781	0.3576	-1.3399
22	29.68	-0.01	8.6433	-11.4377	0.0982	-0.0790	0.0450	0.6375	0.2802	0.3573	-1.3233
23	30.74	-0.01	9.0605	-11.8701	0.0980	-0.0646	0.0457	0.6439	0.2857	0.3582	-1.3101
24	20.28	-0.00	5.0181	-7.9860	-0.0121	0.0868	0.0429	0.6085	0.2865	0.3219	-1.5914
25	10.07	-0.00	1.9176	-3.4386	-0.0026	0.0503	0.0388	0.5881	0.2561	0.3320	-1.7932
26	0.00	0.00	-0.0121	0.0430	-0.0096	-0.0101	0.0389	0.5207	0.2251	0.2955	-3.5478

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	15A	0.60	2.3	0.0	B4W0F31	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-0.00	0.00	0.0180	-0.0392	-0.0073	0.0018	-0.0170	0.2626	0.1157	0.1469	-2.1841
2	0.00	0.00	0.0307	-0.0403	-0.0098	0.0055	-0.0170	0.2644	0.0739	0.1905	-1.3146
3	2.01	0.00	0.2829	-0.3593	-0.0058	0.0053	-0.0210	0.2692	0.1083	0.1610	-1.2698
4	4.01	0.00	0.6006	-0.8975	-0.0048	0.0043	-0.0265	0.2752	0.0834	0.1917	-1.4943
5	6.05	0.00	1.0017	-1.6785	-0.0029	-0.0031	-0.0287	0.2908	0.0996	0.1911	-1.6757
6	8.05	0.00	1.4406	-2.6109	-0.0002	-0.0119	-0.0342	0.3159	0.1107	0.2052	-1.8124
7	10.02	0.00	1.9386	-3.6717	0.0067	-0.0380	-0.0309	0.3470	0.1218	0.2252	-1.8938
8	12.03	0.00	2.4726	-4.8128	0.0078	-0.0750	-0.0294	0.3714	0.1315	0.2399	-1.9463
9	14.02	0.00	3.0282	-5.9961	0.0092	-0.1058	-0.0333	0.3944	0.1430	0.2513	-1.9881
10	16.04	0.01	3.6481	-7.2953	0.0038	-0.1288	-0.0209	0.4228	0.1569	0.2659	-1.9998
11	17.06	0.01	3.9656	-7.9708	0.0034	-0.1426	-0.0139	0.4364	0.1736	0.2628	-2.0188
12	18.06	0.01	4.2905	-8.6317	0.0045	-0.1620	-0.0069	0.4528	0.1845	0.2683	-2.0118
13	19.04	0.01	4.6063	-9.2894	0.0090	-0.1725	-0.0051	0.4660	0.1776	0.2884	-2.0167
14	19.04	0.01	4.6165	-9.3231	0.0046	-0.1603	-0.0050	0.4548	0.2163	0.2386	-2.0195
15	20.08	0.01	4.9391	-9.9467	0.0020	-0.1566	-0.0033	0.4849	0.2218	0.2631	-2.0139
16	21.07	0.01	5.2518	-10.5450	0.0048	-0.1404	-0.0122	0.4838	0.2252	0.2586	-2.0079
17	22.09	0.01	5.5481	-11.0706	0.0004	-0.1127	-0.0176	0.4912	0.2357	0.2555	-1.9954
18	23.10	0.00	5.8581	-11.5230	0.0107	-0.0719	-0.0190	0.4980	0.2458	0.2522	-1.9678
19	24.07	0.00	6.1009	-11.8285	0.0142	-0.1193	-0.0272	0.5051	0.2603	0.2448	-1.9388
20	25.10	0.00	6.3830	-12.2503	0.0811	-0.2183	-0.0298	0.5134	0.2714	0.2420	-1.9192
21	26.12	-0.00	6.7348	-12.7820	0.1719	-0.3677	-0.0198	0.5161	0.2796	0.2365	-1.8979
22	27.14	-0.00	7.0770	-13.3430	0.2605	-0.5275	-0.0065	0.5108	0.3031	0.2076	-1.8854
23	28.17	-0.00	7.3109	-13.5426	0.4740	-0.9336	0.0337	0.4940	0.2986	0.1954	-1.8524
24	28.17	0.00	7.3313	-13.5878	0.4609	-0.9104	0.0356	0.4914	0.3084	0.1830	-1.8534
25	28.17	0.00	7.3261	-13.6051	0.4513	-0.8890	0.0342	0.4849	0.3129	0.1719	-1.8571
26	29.21	0.00	7.6011	-13.9214	0.4689	-0.9551	0.0641	0.4818	0.3167	0.1650	-1.8315
27	30.21	0.00	7.8535	-14.1234	0.6268	-1.2002	0.1060	0.4726	0.3247	0.1479	-1.7984
28	20.06	0.01	4.9762	-10.1530	-0.0120	-0.0762	0.0016	0.4036	0.2281	0.1755	-2.0403
29	10.02	-0.00	1.9602	-3.8142	-0.0036	0.0305	-0.0297	0.2941	0.1438	0.1502	-1.9658
30	-0.00	-0.00	0.0309	-0.1065	-0.0119	0.0299	-0.0165	0.2367	0.0872	0.1496	-3.4464

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	157	0.85	2.3	0.0	B4W0F31	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-0.00	-0.00	0.0299	-0.0946	-0.0104	0.0252	-0.0161	0.2444	0.0793	0.1651	-3.1655
2	2.01	-0.00	0.2916	-0.4162	-0.0101	0.0281	-0.0217	0.2499	0.0921	0.1577	-1.4274
3	4.04	-0.00	0.6208	-0.9776	-0.0088	0.0309	-0.0253	0.2569	0.0964	0.1605	-1.5747
4	6.02	-0.00	1.0137	-1.7533	-0.0069	0.0279	-0.0273	0.2700	0.1036	0.1664	-1.7296
5	8.02	-0.00	1.4596	-2.6988	-0.0052	0.0227	-0.0308	0.2942	0.1091	0.1851	-1.8498
6	10.01	-0.00	1.9585	-3.7829	-0.0019	0.0087	-0.0293	0.3184	0.1230	0.1954	-1.9315
7	12.03	-0.00	2.5132	-4.9846	0.0021	-0.0191	-0.0295	0.3413	0.1360	0.2053	-1.9836
8	14.03	0.00	3.0555	-6.1405	-0.0004	-0.0460	-0.0317	0.3633	0.1456	0.2176	-2.0097
9	16.06	0.00	3.6920	-7.4864	-0.0063	-0.0653	-0.0195	0.3861	0.1573	0.2288	-2.0278
10	17.05	0.01	4.0125	-8.1555	-0.0064	-0.0763	-0.0126	0.4027	0.1691	0.2336	-2.0325
11	18.03	0.01	4.3162	-8.7706	-0.0048	-0.0945	-0.0058	0.4181	0.1684	0.2497	-2.0328
12	19.07	0.01	4.6670	-9.4848	-0.0034	-0.1117	-0.0060	0.4429	0.1860	0.2569	-2.0323
13	20.06	0.01	4.9818	-10.1030	-0.0014	-0.1073	-0.0060	0.4580	0.2087	0.2493	-2.0280
14	21.03	0.01	5.2814	-10.6537	0.0009	-0.1092	-0.0079	0.4632	0.2231	0.2401	-2.0172
15	21.03	0.01	5.3109	-10.7438	0.0002	-0.1051	-0.0078	0.4582	0.2192	0.2390	-2.0238
16	22.06	0.01	5.6459	-11.3134	-0.0035	-0.0807	-0.0095	0.4637	0.2368	0.2269	-2.0038
17	23.08	0.00	5.9245	-11.7055	0.0084	-0.0673	-0.0095	0.4759	0.2408	0.2351	-1.9758
18	24.10	0.00	6.2238	-12.1230	0.0259	-0.0982	-0.0083	0.4845	0.2577	0.2268	-1.9478
19	24.10	0.00	6.2069	-12.1067	0.0222	-0.0928	-0.0065	0.4783	0.2631	0.2152	-1.9499
20	25.13	0.00	6.4958	-12.4977	0.0956	-0.2258	-0.0147	0.4861	0.2767	0.2093	-1.9240
21	26.13	-0.00	6.8145	-12.9055	0.1432	-0.2947	0.0004	0.4994	0.2669	0.2325	-1.8938
22	27.14	0.00	7.1130	-13.3087	0.3527	-0.7046	0.0358	0.4871	0.2835	0.2036	-1.8718
23	28.20	0.01	7.2990	-13.3616	0.6580	-1.3464	0.1068	0.4696	0.2820	0.1876	-1.8306
24	28.19	0.01	7.3408	-13.4605	0.6510	-1.3295	0.1034	0.4718	0.3296	0.1422	-1.8337
25	29.18	0.01	7.6022	-13.7594	0.6766	-1.3815	0.1277	0.4683	0.3318	0.1365	-1.8099
26	30.23	0.01	7.8793	-14.0473	0.6588	-1.3149	0.1540	0.4614	0.3328	0.1287	-1.7828
27	20.06	0.01	5.0009	-10.2311	-0.0053	-0.0681	-0.0035	0.4018	0.2450	0.1568	-2.0459
28	10.04	-0.00	1.9801	-3.8861	-0.0064	0.0400	-0.0289	0.2957	0.1774	0.1182	-1.9626
29	10.04	-0.00	1.9841	-3.8847	-0.0050	0.0359	-0.0289	0.2979	0.1521	0.1458	-1.9579
30	-0.00	-0.00	0.0375	-0.1147	-0.0115	0.0332	-0.0143	0.2388	0.0952	0.1436	-3.0561

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	158	0.92	2.3	0.0	B4W0F31	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-0.00	-0.00	0.0326	-0.0992	-0.0096	0.0254	-0.0167	0.2439	0.0853	0.1585	-3.0443
2	2.01	-0.00	0.2889	-0.4170	-0.0138	0.0346	-0.0203	0.2490	0.0927	0.1563	-1.4436
3	4.03	-0.00	0.6300	-1.0029	-0.0077	0.0359	-0.0237	0.2592	0.0824	0.1768	-1.5919
4	6.02	-0.00	1.0280	-1.6019	-0.0067	0.0284	-0.0273	0.2701	0.1058	0.1643	-1.7529
5	6.02	-0.00	1.0315	-1.6089	-0.0076	0.0354	-0.0254	0.2709	0.0951	0.1758	-1.7536
6	8.01	-0.00	1.4915	-2.4064	-0.0079	0.0332	-0.0320	0.2959	0.1103	0.1856	-1.8816
7	10.05	-0.00	2.0184	-3.4813	-0.0005	0.0193	-0.0304	0.3227	0.1175	0.2052	-1.9725
8	12.01	-0.00	2.5453	-5.1318	0.0033	-0.0127	-0.0306	0.3462	0.1316	0.2146	-2.0162
9	14.02	0.00	3.1396	-6.4367	0.0012	-0.0284	-0.0356	0.3648	0.1470	0.2178	-2.0582
10	17.05	0.00	4.0811	-8.4335	-0.0047	-0.0541	-0.0178	0.4119	0.1708	0.2411	-2.0665
11	18.04	0.01	4.4310	-9.1333	-0.0115	-0.0627	-0.0083	0.4328	0.1868	0.2460	-2.0612
12	19.06	0.01	4.7389	-9.7678	-0.0090	-0.0744	-0.0101	0.4519	0.1984	0.2535	-2.0612
13	20.03	0.01	5.0857	-10.4267	-0.0039	-0.0720	-0.0151	0.4768	0.2055	0.2713	-2.0502
14	21.05	0.00	5.4044	-11.0020	0.0053	-0.0754	-0.0168	0.4822	0.2176	0.2646	-2.0357
15	22.06	0.00	5.7224	-11.6314	0.0124	-0.0811	-0.0186	0.4934	0.2285	0.2649	-2.0151
16	23.10	0.00	6.0561	-12.0342	0.0193	-0.0845	-0.0189	0.5032	0.2345	0.2687	-1.9871
17	24.11	-0.00	6.3695	-12.6245	0.0321	-0.0601	-0.0222	0.5073	0.2412	0.2660	-1.9506
18	25.13	-0.00	6.6381	-12.7487	0.1039	-0.1927	-0.0085	0.5016	0.2599	0.2417	-1.9205
19	26.16	0.00	7.0061	-13.2015	0.1667	-0.3475	0.0047	0.4973	0.2689	0.2284	-1.8843
20	27.20	0.00	7.3031	-13.4594	0.2675	-0.5475	0.0491	0.4866	0.2804	0.2062	-1.8438
21	27.20	0.00	7.2970	-13.4202	0.2692	-0.5583	0.0485	0.4792	0.2785	0.2006	-1.8391
22	28.21	0.01	7.6778	-13.6813	0.3521	-0.7692	0.0753	0.4603	0.2778	0.1825	-1.7819
23	29.28	0.01	8.0922	-13.8997	0.4058	-0.8729	0.0951	0.4336	0.2845	0.1491	-1.7177
24	30.35	0.01	0.4847	-14.0702	0.4313	-0.9238	0.1250	0.4126	0.2870	0.1255	-1.6583
25	20.04	0.00	5.0889	-10.5422	-0.0069	-0.0290	-0.0110	0.4123	0.2687	0.1436	-2.0716
26	10.03	-0.00	2.0243	-4.0393	-0.0037	0.0433	-0.0300	0.3009	0.1822	0.1187	-1.9954
27	-0.00	-0.00	0.0374	-0.1185	-0.0084	0.0314	-0.0158	0.2351	0.1055	0.1296	-3.1667

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)

PAGE 1 OF 1

SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RN10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	159	0.98	2.3	0.0	B4W0F31	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-0.00	-0.00	0.0336	-0.0988	-0.0093	0.0263	-0.0146	0.2826	0.1035	0.1791	-2.9432
2	-0.00	-0.00	0.0313	-0.0954	-0.0082	0.0265	-0.0145	0.2811	0.1026	0.1785	-3.0484
3	-0.00	-0.00	0.0334	-0.0945	-0.0081	0.0228	-0.0145	0.2838	0.0941	0.1897	-2.8294
4	2.03	-0.00	0.3028	-0.4416	-0.0086	0.0303	-0.0196	0.2863	0.0985	0.1878	-1.4585
5	4.03	-0.00	0.6520	-1.0596	-0.0091	0.0352	-0.0246	0.2923	0.0973	0.1950	-1.6251
6	4.03	-0.00	0.6512	-1.0652	-0.0068	0.0353	-0.0234	0.3009	0.0964	0.2044	-1.6357
7	6.01	-0.00	1.0694	-1.9261	-0.0031	0.0333	-0.0276	0.3183	0.1026	0.2156	-1.8811
8	8.02	-0.00	1.5488	-2.9876	-0.0051	0.0317	-0.0309	0.3376	0.1203	0.2173	-1.9298
9	8.02	-0.00	1.5603	-3.0429	-0.0004	0.0317	-0.0336	0.3518	0.1145	0.2372	-1.9502
10	10.03	-0.00	2.0964	-4.2632	0.0015	0.0127	-0.0306	0.3721	0.1321	0.2400	-2.0336
11	12.00	-0.00	2.6614	-5.5087	0.0048	-0.0064	-0.0323	0.3944	0.1422	0.2521	-2.0699
12	14.03	0.00	3.2733	-6.8535	0.0021	-0.0263	-0.0356	0.4141	0.1533	0.2608	-2.0938
13	16.01	0.00	3.8858	-8.1606	0.0039	-0.0466	-0.0278	0.4492	0.1660	0.2832	-2.1001
14	17.04	0.00	4.2156	-8.8439	-0.0022	-0.0457	-0.0248	0.4670	0.1859	0.2811	-2.0979
15	18.03	0.00	4.5494	-9.5171	-0.0060	-0.0479	-0.0202	0.4904	0.1985	0.2919	-2.0919
16	19.03	0.00	4.8860	-10.1425	-0.0032	-0.0537	-0.0235	0.5100	0.2123	0.2976	-2.0758
17	20.06	0.00	5.2393	-10.7725	0.0203	-0.0875	-0.0302	0.5326	0.2172	0.3154	-2.0561
18	21.07	0.00	5.5842	-11.3394	0.0457	-0.1315	-0.0355	0.5349	0.2341	0.3007	-2.0306
19	21.08	0.00	5.6180	-11.3716	0.0537	-0.1446	-0.0355	0.5417	0.2356	0.3062	-2.0242
20	22.08	-0.00	5.9650	-11.8814	0.0963	-0.2281	-0.0348	0.5441	0.2549	0.2892	-1.9919
21	23.13	0.00	6.3198	-12.3246	0.1117	-0.2714	-0.0309	0.5502	0.2560	0.2942	-1.9502
22	24.14	0.00	6.7070	-12.7444	0.1222	-0.2882	-0.0221	0.5552	0.2615	0.2937	-1.9002
23	25.19	0.00	7.0739	-13.0847	0.1376	-0.3114	-0.0181	0.5419	0.2630	0.2789	-1.8497
24	26.22	0.00	7.4576	-13.3731	0.1455	-0.3309	-0.0190	0.5247	0.2713	0.2534	-1.7932
25	27.26	0.00	7.8317	-13.6476	0.1785	-0.4122	-0.0268	0.5003	0.2769	0.2233	-1.7426
26	27.29	-0.00	7.8800	-13.6343	0.1593	-0.3635	-0.0310	0.5114	0.2660	0.2454	-1.7302
27	28.33	-0.00	8.2813	-13.7628	0.1758	-0.3705	-0.0386	0.4833	0.2742	0.2091	-1.6619
28	29.40	-0.01	8.7259	-13.8951	0.1942	-0.3814	-0.0367	0.4560	0.2771	0.1789	-1.5924
29	30.47	-0.00	9.0861	-13.9931	0.2904	-0.5489	-0.0039	0.4291	0.2842	0.1448	-1.5481
30	20.05	-0.00	5.2639	-10.8756	0.0166	-0.0574	-0.0296	0.4921	0.2600	0.2322	-2.0661
31	10.01	-0.00	2.1162	-4.3515	-0.0067	0.0430	-0.0302	0.3523	0.1894	0.1629	-2.0563
32	-0.00	0.00	0.0358	-0.1136	-0.0169	0.0335	-0.0145	0.2770	0.1166	0.1604	-3.1698

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	160	1.10	2.3	0.0	B4=0F31	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	0.00	-0.00	0.0159	-0.0267	-0.0169	0.0562	-0.0139	0.4924	0.2223	0.2701	-1.6792
3	2.02	-0.00	0.2991	-0.4262	-0.0193	0.0717	-0.0180	0.4966	0.2052	0.2914	-1.4248
4	2.02	-0.00	0.2981	-0.4250	-0.0180	0.0674	-0.0163	0.4957	0.1962	0.2995	-1.4256
5	2.02	-0.00	0.2966	-0.4364	-0.0219	0.0884	-0.0168	0.4909	0.1877	0.3032	-1.4714
6	4.04	-0.00	0.6536	-1.0728	-0.0149	0.0883	-0.0200	0.5033	0.1799	0.3234	-1.6414
7	6.01	-0.01	1.0624	-1.9232	-0.0200	0.0960	-0.0212	0.5295	0.1790	0.3505	-1.8102
8	6.01	-0.00	1.0683	-1.9252	-0.0130	0.0668	-0.0230	0.5251	0.1951	0.3299	-1.8022
9	8.02	-0.01	1.5434	-2.9661	-0.0154	0.0815	-0.0301	0.5557	0.2128	0.3429	-1.9218
10	10.01	-0.01	2.0657	-4.1512	-0.0082	0.0662	-0.0271	0.5858	0.2239	0.3619	-2.0096
11	12.02	-0.00	2.6061	-5.3082	-0.0039	0.0468	-0.0316	0.6118	0.2369	0.3748	-2.0368
12	14.02	-0.00	3.1707	-6.4381	-0.0016	0.0098	-0.0276	0.6358	0.2455	0.3903	-2.0305
13	16.05	0.00	3.7666	-7.5580	-0.0031	-0.0139	-0.0193	0.6717	0.2572	0.4145	-2.0066
14	17.04	0.00	4.0662	-8.0987	-0.0057	-0.0220	-0.0137	0.6824	0.2721	0.4103	-1.9917
15	18.06	0.00	4.3832	-8.6209	-0.0083	-0.0125	-0.0183	0.6984	0.2756	0.4227	-1.9668
16	19.07	0.00	4.7036	-9.1272	-0.0220	0.0204	-0.0154	0.7112	0.2849	0.4263	-1.9405
17	20.13	-0.00	5.0390	-9.6111	-0.0022	-0.0090	-0.0217	0.7214	0.2937	0.4277	-1.9074
18	21.14	-0.00	5.3808	-10.0634	0.0205	-0.0423	-0.0237	0.7233	0.2983	0.4251	-1.8702
19	22.17	-0.01	5.7578	-10.4957	0.0386	-0.0474	-0.0329	0.7130	0.2992	0.4138	-1.8229
20	23.22	-0.01	6.1531	-10.8842	0.0476	-0.0388	-0.0451	0.7057	0.3022	0.4035	-1.7689
21	24.25	-0.01	6.5329	-11.2388	0.0433	-0.0246	-0.0502	0.6995	0.3065	0.3930	-1.7203
22	25.30	-0.01	6.9274	-11.5856	0.0219	0.0182	-0.0477	0.6945	0.3078	0.3867	-1.6724
23	26.34	-0.00	7.3157	-11.9117	0.0078	-0.1569	-0.0234	0.6889	0.3140	0.3750	-1.6282
24	27.39	-0.00	7.6830	-12.2102	0.0091	-0.1806	-0.0200	0.6863	0.3212	0.3651	-1.5893
25	28.43	-0.00	8.0932	-12.4939	0.1111	-0.2266	-0.0198	0.6790	0.3218	0.3571	-1.5637
26	29.50	-0.00	8.4715	-12.7012	0.1785	-0.2708	-0.0137	0.6674	0.3284	0.3390	-1.4993
27	30.55	0.00	8.8704	-12.9623	0.2482	-0.5305	0.0171	0.6619	0.3383	0.3236	-1.4613
28	20.11	-0.00	5.0345	-9.6640	-0.0032	0.0200	-0.0169	0.6829	0.3287	0.3542	-1.9195
29	10.03	-0.01	2.0909	-4.2512	-0.0165	0.0954	-0.0250	0.5641	0.2999	0.2642	-2.0332
30	10.03	-0.01	2.0732	-4.2152	-0.0163	0.0975	-0.0248	0.5694	0.2595	0.3099	-2.0332
31	-0.00	-0.00	0.0115	-0.0412	-0.0184	0.0626	-0.0062	0.4816	0.1921	0.2895	-3.5862

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	181	1.20	2.3	0.0	84#0F31	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	0.00	-0.00	-0.0108	0.0663	-0.0048	0.0154	-0.0080	0.4987	0.1944	0.3044	-6.1241
2	2.01	-0.00	0.2841	-0.3551	-0.0045	0.0209	-0.0082	0.5045	0.1855	0.3190	-1.2498
3	4.02	-0.00	0.6355	-0.9924	-0.0044	0.0258	-0.0123	0.5118	0.1866	0.3252	-1.5615
4	6.04	-0.00	1.0540	-1.8675	-0.0005	0.0163	-0.0165	0.5350	0.1930	0.3420	-1.7651
5	8.03	-0.00	1.5305	-2.8784	-0.0013	0.0246	-0.0176	0.5638	0.2079	0.3560	-1.8887
6	8.03	-0.00	1.5371	-2.8927	0.0012	0.0233	-0.0181	0.5645	0.2214	0.3430	-1.8819
7	10.05	-0.00	2.0480	-3.9626	0.0090	-0.0003	-0.0168	0.5914	0.2244	0.3670	-1.9349
8	12.03	-0.00	2.5772	-5.0225	0.0092	-0.0143	-0.0212	0.6098	0.2321	0.3777	-1.9488
9	14.04	-0.00	3.1291	-6.0844	0.0154	-0.0384	-0.0216	0.6324	0.2396	0.3927	-1.9444
10	16.10	0.00	3.7272	-7.1204	0.0209	-0.0770	-0.0181	0.6538	0.2430	0.4108	-1.9184
11	17.10	0.00	4.0303	-7.5868	0.0222	-0.0831	-0.0143	0.6671	0.2521	0.4150	-1.8825
12	18.14	0.00	4.3581	-8.0324	0.0209	-0.0733	-0.0188	0.6794	0.2583	0.4211	-1.8431
13	19.14	0.00	4.7031	-8.4477	0.0149	-0.0595	-0.0219	0.6856	0.2636	0.4219	-1.7962
14	20.17	-0.00	5.0574	-8.8116	0.0185	-0.0510	-0.0307	0.6851	0.2673	0.4178	-1.7423
15	21.24	-0.00	5.4490	-9.2299	0.0367	-0.0765	-0.0329	0.6865	0.2759	0.4106	-1.6939
16	22.28	-0.00	5.8433	-9.5738	0.0503	-0.0887	-0.0308	0.6807	0.2759	0.4047	-1.6384
17	23.31	-0.00	6.2081	-9.9006	0.0680	-0.1385	-0.0278	0.6748	0.2802	0.3946	-1.5948
18	24.37	-0.00	6.5509	-10.1756	0.0963	-0.1953	-0.0219	0.6676	0.2833	0.3843	-1.5533
19	25.42	-0.00	6.9772	-10.5178	0.1252	-0.2489	-0.0174	0.6649	0.2847	0.3802	-1.5076
20	26.45	-0.00	7.3849	-10.8571	0.1600	-0.3102	-0.0104	0.6647	0.2909	0.3738	-1.4702
21	27.52	-0.00	7.7972	-11.1860	0.1863	-0.3812	-0.0008	0.6638	0.2968	0.3670	-1.4344
22	28.57	-0.00	8.2027	-11.4744	0.1857	-0.3697	-0.0033	0.6584	0.2993	0.3591	-1.3989
23	29.61	-0.00	8.5964	-11.7723	0.2071	-0.4055	0.0065	0.6595	0.3103	0.3492	-1.3694
24	30.66	-0.00	8.9844	-12.0491	0.2331	-0.4561	0.0064	0.6591	0.3194	0.3397	-1.3411
25	20.20	-0.00	5.0874	-6.8907	0.0179	-0.0403	-0.0264	0.6677	0.3135	0.3542	-1.7476
26	10.33	-0.00	2.0512	-4.0164	0.0026	0.0216	-0.0164	0.5744	0.2822	0.2922	-1.9581
27	0.00	-0.00	0.0012	0.0216	-0.0075	0.0175	-0.0010	0.4975	0.2133	0.2842	18.4869

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	162	1.30	2.3	0.0	84#0F31	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLN	CY	CLN	CLL	CA	CAB	CAF	XCP
1	0.01	0.00	0.0030	0.0476	0.0009	-0.0059	0.0001	0.4830	0.1828	0.3002	16.0292
2	2.04	-0.00	0.2926	-0.3529	0.0022	0.0141	-0.0013	0.4870	0.1882	0.2988	-1.2064
3	4.02	-0.00	0.6435	-0.9737	-0.0041	0.0284	-0.0054	0.4933	0.1885	0.3048	-1.5132
4	6.03	-0.00	1.0690	-1.8268	-0.0010	0.0347	-0.0080	0.5162	0.1902	0.3260	-1.7078
5	8.02	-0.00	1.5027	-2.7112	0.0050	0.0289	-0.0134	0.5449	0.1964	0.3485	-1.8042
6	10.05	0.00	2.0090	-3.7040	-0.0135	0.0187	-0.0152	0.5646	0.2048	0.3598	-1.8437
7	12.07	-0.00	2.5196	-4.7186	0.0090	-0.0063	-0.0167	0.5860	0.2145	0.3716	-1.8728
8	14.10	-0.00	3.0255	-5.6194	0.0155	-0.0392	-0.0159	0.6063	0.2226	0.3837	-1.0574
9	16.12	-0.00	3.6527	-6.5983	0.0286	-0.0679	-0.0139	0.6208	0.2313	0.3895	-1.8064
10	17.14	0.00	3.9714	-7.0172	0.0272	-0.0758	-0.0131	0.6285	0.2393	0.3892	-1.7669
11	18.16	0.00	4.3236	-7.4043	0.0224	-0.0669	-0.0123	0.6314	0.2437	0.3877	-1.7125
12	19.21	-0.00	4.6781	-7.7507	0.0260	-0.0601	-0.0154	0.6334	0.2492	0.3842	-1.6548
13	20.27	-0.00	5.0470	-8.1006	0.0297	-0.0581	-0.0187	0.6366	0.2532	0.3834	-1.6058
14	20.27	-0.00	5.0676	-8.1289	0.0233	-0.0473	-0.0174	0.6324	0.2542	0.3782	-1.6041
15	21.31	-0.00	5.4183	-8.4239	0.0314	-0.0643	-0.0208	0.6353	0.2570	0.3783	-1.5547
16	22.36	-0.00	5.7900	-8.7489	0.0461	-0.0862	-0.0217	0.6357	0.2632	0.3725	-1.5110
17	23.43	-0.00	6.1680	-9.0661	0.0646	-0.1184	-0.0227	0.6387	0.2695	0.3693	-1.4699
18	24.46	-0.00	6.5433	-9.3728	0.0785	-0.1563	-0.0200	0.6407	0.2749	0.3657	-1.4324
19	25.51	-0.00	6.9295	-9.6590	0.1214	-0.2441	-0.0095	0.6412	0.2806	0.3605	-1.3939
20	25.51	-0.00	6.9093	-9.6236	0.1137	-0.2264	-0.0094	0.6378	0.2861	0.3516	-1.3928
21	26.56	0.00	7.3206	-9.9233	0.1523	-0.3141	0.0022	0.6417	0.2902	0.3515	-1.3555
22	27.62	0.00	7.7380	-10.2349	0.1778	-0.3847	0.0152	0.6491	0.2970	0.3521	-1.3227
23	27.63	0.00	7.7409	-10.2226	0.1620	-0.3615	0.0153	0.6452	0.3091	0.3361	-1.3206
24	28.67	-0.00	8.1128	-10.4909	0.1659	-0.3294	0.0078	0.6522	0.3123	0.3399	-1.2931
25	29.72	-0.00	8.5186	-10.8268	0.1566	-0.2820	0.0005	0.6644	0.3205	0.3439	-1.2710
26	29.72	-0.00	8.5205	-10.8192	0.1566	-0.2768	0.0005	0.6619	0.3260	0.3359	-1.2698
27	30.77	-0.01	8.9379	-11.1876	0.1395	-0.2259	-0.0042	0.6673	0.3360	0.3312	-1.2517
29	20.27	-0.00	5.0609	-8.1125	0.0207	-0.0369	-0.0132	0.6208	0.3009	0.3198	-1.6030
30	10.06	-0.01	2.0012	-3.7446	0.0136	0.0267	-0.0106	0.5531	0.2755	0.2775	-1.8712
31	0.00	0.00	0.0010	0.0434	-0.0034	0.0071	0.0042	0.4840	0.2398	0.2443	44.0934

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	166	0.60	2.3	0.0	RAWOF11	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLN	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-0.00	0.00	0.0049	-0.0158	-0.0061	0.0109	-0.0113	0.2542	0.0870	0.1672	-3.1973
3	-0.00	0.00	0.0023	-0.0119	-0.0099	0.0164	-0.0113	0.2541	0.0944	0.1597	-5.1566
4	1.99	-0.00	0.2193	-0.3096	-0.0089	0.0200	-0.0134	0.2579	0.0948	0.1631	-1.4116
5	4.04	-0.00	0.4668	-0.7056	-0.0063	0.0213	-0.0137	0.2597	0.1195	0.1402	-1.5114
6	4.04	-0.00	0.4670	-0.7146	-0.0075	0.0229	-0.0136	0.2595	0.1090	0.1505	-1.5301
7	6.03	-0.00	0.7546	-1.2357	-0.0091	0.0405	-0.0154	0.2732	0.1047	0.1685	-1.6375
9	8.06	-0.00	1.0714	-1.9538	-0.0102	0.0543	-0.0170	0.2898	0.1256	0.1642	-1.8236
10	10.01	-0.00	1.3964	-2.6412	-0.0069	0.0541	-0.0152	0.3088	0.1368	0.1720	-1.8914
11	12.06	-0.00	1.7332	-3.3119	-0.0039	0.0272	-0.0138	0.3323	0.1464	0.1859	-1.9108
12	14.02	-0.00	2.1348	-4.1662	-0.0118	0.0448	-0.0174	0.3474	0.1618	0.1855	-1.9518
13	16.07	-0.00	2.4821	-4.8669	-0.0333	0.0905	-0.0102	0.3472	0.1753	0.1719	-1.8882
14	18.08	-0.00	2.7404	-4.8125	-0.0345	0.0641	-0.0203	0.3465	0.2115	0.1350	-1.7561
16	19.09	0.00	2.9886	-4.8823	-0.0233	0.0166	-0.0267	0.3517	0.2276	0.1240	-1.6902
17	20.12	0.00	3.0448	-4.9566	-0.0145	-0.0279	-0.0349	0.3586	0.2572	0.1014	-1.6279
18	21.15	0.00	3.1844	-4.9912	-0.0007	-0.0544	-0.0391	0.3606	0.2637	0.0969	-1.5674
19	22.14	0.00	3.3177	-5.0178	0.0181	-0.0866	-0.0434	0.3653	0.2779	0.0874	-1.5124
20	23.21	-0.00	3.5024	-5.0677	0.0351	-0.0960	-0.0405	0.3723	0.2846	0.0877	-1.4469
21	24.20	-0.00	3.6534	-5.0730	0.0440	-0.1345	-0.0542	0.3817	0.2987	0.0829	-1.3886
22	25.24	-0.01	3.8115	-5.0272	-0.0161	0.1276	-0.0054	0.3898	0.3147	0.0751	-1.3190
23	26.25	-0.01	3.9927	-5.0980	-0.0144	0.2615	0.0225	0.3951	0.3334	0.0618	-1.2768
24	27.28	-0.02	4.2269	-5.3439	0.0700	0.2333	0.0965	0.3996	0.3611	0.0385	-1.2643
25	28.29	-0.01	4.4357	-5.4725	0.1339	0.0576	0.0943	0.3992	0.3740	0.0252	-1.2337
26	29.33	-0.01	4.6771	-5.6476	0.2361	-0.2055	0.1110	0.3983	0.3923	0.0060	-1.2075
27	29.32	-0.01	4.6681	-5.6936	0.2479	-0.2280	0.1186	0.3973	0.4302	-0.0329	-1.2197
28	30.36	-0.00	4.8971	-5.8307	0.3183	-0.4263	0.1213	0.3912	0.4249	-0.0336	-1.1906
29	20.11	0.00	3.0290	-4.9389	-0.0162	-0.0339	-0.0351	0.3552	0.3219	0.0333	-1.6306
30	10.03	-0.00	1.4249	-2.8057	-0.0084	0.0397	-0.0151	0.2769	0.1827	0.0942	-1.9691
31	-0.01	0.00	0.0213	-0.1281	-0.0110	0.0065	-0.0113	0.2370	0.1208	0.1162	-6.0065

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	167	0.65	2.3	0.0	B4W0F11	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-0.00	0.00	0.0126	-0.0813	-0.0106	0.0086	-0.0126	0.2447	0.0979	0.1468	-6.4352
2	2.02	0.00	0.2351	-0.3963	-0.0082	0.0101	-0.0128	0.2485	0.0986	0.1499	-1.6858
3	4.00	0.00	0.4777	-0.7796	-0.0068	0.0107	-0.0131	0.2524	0.1046	0.1478	-1.6319
4	6.05	-0.00	0.7623	-1.3224	-0.0107	0.0352	-0.0148	0.2641	0.1132	0.1509	-1.7354
5	8.05	-0.00	1.0807	-2.0014	-0.0011	0.0081	-0.0168	0.2816	0.1246	0.1570	-1.8519
6	8.04	-0.00	1.0830	-2.0314	-0.0079	0.0449	-0.0163	0.2819	0.1227	0.1592	-1.8757
7	10.01	-0.00	1.4201	-2.7465	-0.0112	0.0555	-0.0145	0.3036	0.1378	0.1658	-1.9348
8	12.04	-0.00	1.7376	-3.3466	-0.0040	0.0264	-0.0132	0.3270	0.1463	0.1806	-1.9268
9	14.02	-0.00	2.1289	-4.1460	-0.0092	0.0337	-0.0151	0.3444	0.1670	0.1773	-1.9475
10	16.05	-0.00	2.4484	-4.5665	-0.0308	0.0893	-0.0080	0.3511	0.1781	0.1731	-1.8668
11	17.04	-0.00	2.5969	-4.6973	-0.0330	0.0874	-0.0119	0.3556	0.1841	0.1715	-1.8088
12	18.09	-0.00	2.7583	-4.8073	-0.0366	0.0828	-0.0197	0.3608	0.1973	0.1634	-1.7429
13	19.08	0.00	2.9056	-4.8960	-0.0210	0.0163	-0.0240	0.3658	0.2225	0.1433	-1.6859
14	20.15	0.00	3.0695	-4.9795	-0.0125	-0.0738	-0.0320	0.3740	0.2425	0.1315	-1.6223
15	20.15	0.00	3.0565	-4.9618	-0.0258	-0.0211	-0.0337	0.3749	0.2555	0.1194	-1.6234
16	21.13	0.00	3.1977	-5.0023	-0.0002	-0.0419	-0.0288	0.3771	0.2703	0.1067	-1.5643
17	22.16	-0.00	3.3696	-5.0637	0.0098	-0.0442	-0.0293	0.3824	0.2872	0.0952	-1.5028
18	23.20	-0.00	3.5328	-5.0912	-0.0135	0.0651	-0.0149	0.3850	0.3032	0.0818	-1.4411
19	24.24	-0.00	3.7262	-5.1323	0.0569	-0.0953	-0.0398	0.4003	0.3090	0.0912	-1.3776
20	25.20	-0.02	3.8460	-5.0547	-0.0289	0.3130	0.0259	0.4030	0.3252	0.0778	-1.3143
21	26.26	-0.01	4.0617	-5.1186	-0.0068	0.2515	0.0281	0.4122	0.3485	0.0637	-1.2602
22	27.31	-0.02	4.3104	-5.3696	0.0870	0.2220	0.0963	0.4144	0.3709	0.0434	-1.2457
23	28.30	-0.02	4.5340	-5.5663	0.2230	-0.0362	0.1316	0.4209	0.3946	0.0263	-1.2277
24	29.36	-0.01	4.7508	-5.6168	0.2302	-0.1427	0.1075	0.4101	0.4086	0.0015	-1.1823
25	30.39	-0.01	4.9916	-5.7581	0.3644	-0.4253	0.1304	0.4023	0.4208	-0.0185	-1.1536
26	20.12	-0.00	3.0509	-4.9567	-0.0061	-0.0037	-0.0244	0.3726	0.3374	0.0352	-1.6247
27	10.03	-0.00	1.4435	-2.8724	-0.0109	0.0526	-0.0145	0.2833	0.1923	0.0910	-1.9899
28	-0.01	0.00	0.0230	-0.1348	-0.0080	0.0047	-0.0108	0.2380	0.1190	0.1190	-5.8698

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	168	0.92	2.3	0.0	B4W0F11	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	ACP
1	-0.00	0.00	0.0146	-0.0901	-0.0078	0.0088	-0.0104	0.2496	0.0927	0.1569	-6.1674
2	2.02	0.00	0.2412	-0.4031	-0.0099	0.0128	-0.0123	0.2522	0.1043	0.1480	-1.6712
3	4.00	-0.00	0.4880	-0.8236	-0.0061	0.0154	-0.0141	0.2563	0.1085	0.1477	-1.6877
4	6.00	-0.00	0.7734	-1.3805	-0.0095	0.0380	-0.0123	0.2657	0.0999	0.1658	-1.7850
5	8.01	-0.00	1.1154	-2.1009	-0.0089	0.0528	-0.0172	0.2856	0.1210	0.1646	-1.8835
6	10.02	-0.00	1.4698	-2.8594	-0.0126	0.0693	-0.0137	0.2982	0.1302	0.1679	-1.9454
7	12.04	-0.00	1.7614	-3.3677	-0.0119	0.0490	-0.0092	0.3436	0.1427	0.2009	-1.9119
9	14.01	-0.00	2.1316	-4.1067	-0.0110	0.0395	-0.0160	0.3616	0.1839	0.1777	-1.9266
10	16.05	-0.00	2.4891	-4.6847	-0.0162	0.0260	-0.0182	0.3789	0.1950	0.1839	-1.8821
11	17.08	-0.00	2.6827	-4.9611	-0.0165	0.0172	-0.0235	0.3930	0.2067	0.1863	-1.8493
12	18.11	0.00	2.8393	-5.1050	-0.0239	0.0193	-0.0271	0.3949	0.2199	0.1751	-1.7988
13	19.13	0.00	3.0100	-5.2173	-0.0192	-0.0020	-0.0329	0.4014	0.2441	0.1572	-1.7333
14	20.09	0.00	3.1463	-5.2567	-0.0079	-0.0309	-0.0319	0.4052	0.2617	0.1435	-1.6708
15	21.19	-0.00	3.3493	-5.3840	0.0103	-0.0435	-0.0274	0.4143	0.2788	0.1355	-1.6075
16	22.21	-0.01	3.5228	-5.4025	0.0000	0.1209	0.0038	0.4159	0.3003	0.1155	-1.5336
17	22.21	0.00	3.5334	-5.4447	0.0164	-0.0623	-0.0248	0.4163	0.3117	0.1045	-1.5409
18	23.18	-0.01	3.7196	-5.4570	-0.0214	0.2614	0.0226	0.4265	0.3183	0.1081	-1.4671
19	24.20	-0.03	3.8933	-5.4270	0.0400	0.3495	0.0464	0.4332	0.3258	0.1074	-1.3939
20	25.22	-0.02	4.0806	-5.4751	-0.0121	0.4354	0.0761	0.4398	0.3462	0.0936	-1.3417
21	25.23	-0.02	4.0923	-5.4607	-0.0173	0.4361	0.0819	0.4394	0.3489	0.0905	-1.3344
22	26.29	-0.02	4.3366	-5.4570	0.0469	0.1927	0.0110	0.4419	0.3607	0.0812	-1.2583
23	27.36	-0.02	4.5366	-5.3711	0.0743	0.2052	0.0632	0.4377	0.3811	0.0566	-1.1839
24	28.42	-0.01	4.7682	-5.2461	0.1489	-0.1526	0.0202	0.4530	0.3853	0.0676	-1.1002
25	29.47	-0.00	5.0497	-5.1379	0.1411	-0.2428	-0.0140	0.4523	0.4311	0.0212	-1.0175
26	30.51	-0.01	5.3470	-5.0324	0.2404	-0.3498	0.0072	0.4470	0.4453	0.0017	-0.9412
27	20.13	-0.00	3.1900	-5.3455	-0.0064	0.0620	-0.0174	0.4102	0.3671	0.0432	-1.6757
30	10.02	-0.00	1.4811	-2.9477	-0.0135	0.0681	-0.0152	0.2817	0.1580	0.1237	-1.9902
31	-0.01	0.00	0.0242	-0.1359	-0.0088	0.0061	-0.0087	0.2449	0.1291	0.1158	-5.6089

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RE10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	169	0.94	2.3	0.0	84#DF11	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-0.01	0.00	0.0190	-0.1106	-0.0098	0.0078	-0.0086	0.2518	0.0820	0.1698	-5.8219
2	2.02	0.00	0.2394	-0.4153	-0.0075	0.0091	-0.0121	0.2534	0.0977	0.1557	-1.7351
3	4.01	0.00	0.4902	-0.8445	-0.0081	0.0142	-0.0106	0.2550	0.1041	0.1510	-1.7230
4	6.03	-0.00	0.7679	-1.4417	-0.0090	0.0387	-0.0137	0.2672	0.1134	0.1539	-1.8299
5	8.02	-0.00	1.1322	-2.1941	-0.0104	0.0656	-0.0151	0.2851	0.1145	0.1706	-1.9379
6	10.02	-0.00	1.4910	-2.9675	-0.0141	0.0702	-0.0134	0.3018	0.1292	0.1726	-1.9903
9	12.03	-0.01	1.8556	-3.6877	-0.0230	0.1122	-0.0065	0.3092	0.1605	0.1487	-1.9863
10	14.02	-0.00	2.1428	-4.1481	-0.0067	0.0267	-0.0158	0.3725	0.1736	0.1988	-1.9358
11	16.04	0.00	2.5228	-4.8012	-0.0183	0.0209	-0.0211	0.3874	0.1957	0.1917	-1.9031
12	17.05	-0.00	2.7071	-5.0628	-0.0176	0.0263	-0.0230	0.3921	0.2131	0.1791	-1.8702
13	18.07	-0.00	2.9044	-5.3045	-0.0266	0.0346	-0.0281	0.4066	0.2270	0.1796	-1.8264
14	19.10	-0.00	3.0787	-5.4457	-0.0139	0.0271	-0.0286	0.4105	0.2544	0.1561	-1.7688
15	20.12	-0.00	3.2429	-5.5214	0.0003	0.0393	-0.0222	0.4145	0.2730	0.1415	-1.7026
16	21.11	-0.01	3.4418	-5.6575	0.0138	0.0526	-0.0109	0.4233	0.2800	0.1434	-1.6438
17	22.18	-0.01	3.6198	-5.8347	0.0240	0.0034	-0.0251	0.4258	0.3017	0.1241	-1.5566
18	23.18	-0.01	3.7879	-5.8189	0.0004	0.1843	0.0184	0.4253	0.3137	0.1116	-1.4828
19	24.25	-0.02	4.0004	-5.5697	-0.0248	0.3437	0.0448	0.4349	0.3215	0.1135	-1.3973
20	25.30	-0.02	4.2169	-5.9105	-0.0163	0.2970	0.0285	0.4348	0.3403	0.0945	-1.3068
21	26.31	-0.02	4.4690	-5.6727	0.0161	0.3625	0.0524	0.4401	0.3538	0.0863	-1.2246
22	27.37	-0.02	4.6468	-5.3420	0.0434	0.2485	0.0648	0.4386	0.3718	0.0668	-1.1496
23	28.46	-0.01	4.9704	-5.0688	0.1506	-0.1371	0.0168	0.4580	0.3798	0.0781	-1.0198
24	29.50	-0.00	5.2798	-4.9376	0.1286	-0.2524	-0.0192	0.4517	0.4025	0.0492	-0.9352
25	30.57	-0.01	5.5395	-4.8172	0.1812	-0.2405	-0.0201	0.4486	0.4308	0.0178	-0.8696
26	20.12	-0.00	3.3296	-5.7521	-0.0157	0.0791	-0.0135	0.4270	0.3486	0.0785	-1.7278
27	20.12	-0.01	3.2704	-5.5984	0.0033	0.0892	-0.0068	0.4097	0.3498	0.0599	-1.7114
28	10.21	-0.00	1.5122	-3.0959	-0.0123	0.0687	-0.0147	0.2843	0.2209	0.0633	-2.0473
29	-0.01	0.00	0.0169	-0.1274	-0.0076	0.0044	-0.0085	0.2455	0.1164	0.1291	-7.5221

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	170	0.96	2.3	0.0	84W0F11	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-0.01	0.00	0.0164	-0.1017	-0.0086	0.0080	-0.0101	0.2622	0.0884	0.1739	-6.1987
2	2.03	0.00	0.2448	-0.4443	-0.0095	0.0062	-0.0120	0.2642	0.1049	0.1593	-1.7855
3	3.99	-0.00	0.5065	-0.9196	-0.0032	0.0067	-0.0104	0.2719	0.1037	0.1681	-1.8190
4	6.01	-0.00	0.8283	-1.6362	-0.0037	0.0239	-0.0134	0.2841	0.1038	0.1803	-1.9754
5	8.00	-0.00	1.1690	-2.3866	-0.0096	0.0435	-0.0149	0.2969	0.1215	0.1754	-2.0416
6	10.03	-0.00	1.5423	-3.1869	-0.0106	0.0578	-0.0147	0.3275	0.1262	0.2012	-2.0664
7	12.04	-0.00	1.8850	-3.8458	-0.0187	0.0945	-0.0081	0.3315	0.1429	0.1886	-2.0379
8	14.04	-0.00	2.1587	-4.1275	-0.0050	0.0205	-0.0157	0.3967	0.1665	0.2302	-1.9122
9	16.06	-0.00	2.5513	-4.8709	-0.0084	0.0314	-0.0175	0.4087	0.2081	0.2006	-1.9092
10	17.07	-0.00	2.7596	-5.1870	-0.0128	0.0479	-0.0192	0.4112	0.2264	0.1849	-1.8796
11	18.08	-0.00	2.9679	-5.4856	-0.0138	0.0656	-0.0225	0.4202	0.2522	0.1680	-1.8483
12	19.07	-0.00	3.1753	-5.7061	-0.0172	0.0660	-0.0261	0.4303	0.2659	0.1644	-1.7978
13	20.09	-0.01	3.3787	-5.8856	0.0017	0.0726	-0.0149	0.4350	0.2808	0.1541	-1.7420
14	21.16	-0.01	3.5491	-5.9125	-0.0035	0.0980	-0.0072	0.4325	0.2931	0.1394	-1.6659
15	22.18	-0.01	3.7536	-5.9793	0.0050	0.0741	-0.0080	0.4380	0.3070	0.1310	-1.5938
16	23.20	-0.01	3.9375	-5.9298	-0.0083	0.1920	0.0213	0.4327	0.3140	0.1187	-1.5068
17	24.27	-0.01	4.1517	-5.8743	-0.0067	0.1263	-0.0062	0.4330	0.3233	0.1097	-1.4149
18	25.30	-0.01	4.4425	-5.6421	-0.0241	0.2423	0.0285	0.4339	0.3257	0.1082	-1.3151
19	26.38	-0.02	4.7025	-5.6344	-0.0113	0.2931	0.0385	0.4341	0.3436	0.0904	-1.1982
20	27.42	-0.02	4.9182	-5.4453	0.0114	0.3740	0.0651	0.4437	0.3578	0.0860	-1.1072
21	28.51	-0.01	5.1957	-5.1891	0.0953	0.0102	0.0119	0.4494	0.3744	0.0750	-0.9987
22	29.57	-0.01	5.4581	-4.9607	0.1953	-0.3171	-0.0345	0.4531	0.3925	0.0607	-0.9089
23	30.63	-0.01	5.7743	-4.7096	0.2011	-0.3526	-0.0211	0.4576	0.4210	0.0367	-0.8156
24	20.11	-0.01	3.3667	-5.9149	-0.0094	0.0708	-0.0213	0.4302	0.3428	0.0874	-1.7569
25	10.02	-0.00	1.5547	-3.2879	-0.0070	0.0516	-0.0178	0.3103	0.2178	0.0924	-2.1148
26	-0.01	0.00	0.0213	-0.1287	-0.0041	0.0013	-0.0085	0.2566	0.1318	0.1248	-6.0459

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	171	0.90	2.3	0.0	64B0F11	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-0.00	0.00	0.0160	-0.0918	-0.0095	0.0058	-0.0084	0.7928	0.1081	0.1848	-5.7475
2	2.02	-0.00	0.2542	-0.4771	-0.0058	0.0121	-0.0101	0.2948	0.1086	0.1862	-1.8768
3	4.03	-0.00	0.5379	-1.0370	-0.0036	0.0107	-0.0118	0.3001	0.1138	0.1862	-1.9277
4	6.04	-0.00	0.8523	-1.7215	-0.0064	0.0179	-0.0148	0.3183	0.1170	0.2013	-2.0198
5	7.99	-0.00	1.1952	-2.4894	-0.0023	0.0300	-0.0162	0.3379	0.1207	0.2172	-2.0028
6	10.01	-0.00	1.5592	-3.2483	-0.0033	0.0403	-0.0145	0.3604	0.1419	0.2185	-2.0873
7	12.03	-0.00	1.9363	-3.9780	-0.0054	0.0509	-0.0146	0.3811	0.1529	0.2281	-2.0545
8	14.03	-0.00	2.1771	-4.1473	-0.0143	0.0396	-0.0092	0.4174	0.1841	0.2333	-1.9049
9	16.02	-0.00	2.5817	-4.8691	-0.0215	0.0578	-0.0155	0.4412	0.2155	0.2257	-1.8937
10	17.05	-0.00	2.8168	-5.2825	-0.0175	0.0636	-0.0187	0.4549	0.2428	0.2120	-1.8754
11	18.09	-0.00	3.0535	-5.6670	-0.0392	0.0940	-0.0236	0.4574	0.2643	0.1930	-1.8559
12	19.12	-0.00	3.2516	-5.8898	-0.0142	0.0643	-0.0240	0.4597	0.2746	0.1850	-1.8114
13	20.10	-0.01	3.4746	-6.1184	-0.0055	0.0645	-0.0212	0.4579	0.2916	0.1663	-1.7603
14	21.13	-0.01	3.7001	-6.2601	0.0054	0.0622	-0.0185	0.4535	0.3051	0.1484	-1.6919
15	21.13	-0.01	3.7188	-6.3015	0.0124	0.0534	-0.0137	0.4582	0.2978	0.1605	-1.6945
16	22.17	-0.01	3.9755	-6.4038	0.0247	0.0679	0.0032	0.4546	0.3052	0.1495	-1.6108
17	23.23	-0.01	4.2027	-6.4128	0.0323	0.0978	0.0279	0.4498	0.3103	0.1395	-1.5259
18	24.24	-0.01	4.4697	-6.4580	0.0370	0.1081	0.0366	0.4440	0.3185	0.1255	-1.4448
19	25.28	-0.01	4.6503	-6.2515	-0.0007	0.1396	0.0131	0.4336	0.3337	0.1000	-1.3443
21	26.37	-0.01	4.9625	-6.2417	0.0214	0.1647	0.0402	0.4376	0.3557	0.0819	-1.2578
22	27.43	-0.02	5.1954	-5.9633	0.0048	0.2978	0.0707	0.4407	0.3561	0.0846	-1.1478
23	28.51	-0.02	5.5071	-5.7768	0.1182	0.1243	0.0490	0.4336	0.3659	0.0677	-1.0498
24	29.57	-0.02	5.7958	-5.4584	0.1724	-0.0555	0.0250	0.4437	0.3779	0.0658	-0.9419
25	30.67	-0.01	6.0674	-5.2137	0.2577	-0.4083	-0.0148	0.4526	0.3962	0.0564	-0.8592
26	20.12	-0.01	3.5140	-6.2248	-0.0080	0.0621	-0.0259	0.4640	0.3521	0.1119	-1.7694
27	10.00	-0.00	1.5988	-3.4528	-0.0070	0.0412	-0.0143	0.3458	0.2528	0.0930	-2.1596
28	-0.01	0.00	0.0209	-0.1337	-0.0117	0.0049	-0.0084	0.2863	0.1519	0.1345	-6.4095

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	172	1.10	2.3	0.0	84 OF 11	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-0.00	-0.00	0.0036	-0.0610	-0.0215	0.0851	-0.0091	0.4907	0.1774	0.3133	-16.8862
2	2.04	-0.00	0.2560	-0.4604	-0.0158	0.0504	-0.0079	0.4996	0.1794	0.3201	-1.7986
3	2.04	-0.00	0.2570	-0.4763	-0.0168	0.0622	-0.0093	0.4958	0.1857	0.3101	-1.8530
4	4.04	-0.00	0.5326	-0.9981	-0.0196	0.0784	-0.0092	0.4964	0.1976	0.2988	-1.8739
5	6.01	-0.00	0.8361	-1.6086	-0.0140	0.0649	-0.0123	0.5181	0.1944	0.3237	-1.9193
6	8.01	-0.01	1.1899	-2.3456	-0.0148	0.0810	-0.0121	0.5375	0.2088	0.3287	-2.0133
7	10.01	-0.01	1.5713	-3.1885	-0.0123	0.0819	-0.0135	0.5458	0.2138	0.3320	-2.0292
8	12.05	-0.01	1.9652	-3.9316	-0.0098	0.0750	-0.0108	0.5555	0.2210	0.3345	-2.0006
9	14.04	-0.01	2.3508	-4.5926	-0.0194	0.0964	-0.0065	0.5553	0.2266	0.3286	-1.9536
10	16.09	-0.01	2.6826	-5.1954	-0.0458	0.1785	0.0079	0.5729	0.2336	0.3394	-1.8249
11	17.14	-0.01	2.8829	-5.5672	-0.0397	0.1555	-0.0057	0.5774	0.2469	0.3305	-1.7577
12	18.12	-0.01	3.1112	-5.9747	-0.0425	0.1553	-0.0118	0.5829	0.2633	0.3196	-1.7275
13	19.14	-0.01	3.3513	-5.6720	-0.0470	0.1720	-0.0135	0.5817	0.2729	0.3088	-1.6925
14	20.16	-0.01	3.6273	-5.9273	-0.0251	0.1434	-0.0198	0.5716	0.2655	0.3061	-1.6341
15	21.21	-0.01	3.9230	-6.1793	-0.0103	0.1223	-0.0204	0.5624	0.2777	0.2847	-1.5752
16	22.26	-0.01	4.2336	-6.4299	0.0334	0.0564	-0.0156	0.5559	0.2895	0.2664	-1.5188
17	23.27	-0.01	4.5195	-6.5939	0.0519	0.0131	-0.0095	0.5473	0.2917	0.2556	-1.4590
18	24.34	-0.01	4.8901	-6.7252	0.0498	0.0348	-0.0252	0.5352	0.2867	0.2485	-1.3753
19	25.36	-0.01	5.1933	-6.8396	0.0241	0.0897	-0.0202	0.5313	0.3097	0.2216	-1.3178
20	26.43	-0.01	5.4912	-6.9229	0.0271	0.0596	-0.0113	0.5231	0.3142	0.2088	-1.2607
21	27.50	-0.01	5.8216	-6.9304	0.0235	0.1120	-0.0098	0.5131	0.3136	0.1996	-1.1906
22	28.58	-0.01	6.1578	-6.9187	0.0694	0.0162	0.0037	0.5089	0.3221	0.1868	-1.1236
23	29.66	-0.01	6.4870	-6.8893	0.1213	-0.0899	0.0157	0.5051	0.3320	0.1732	-1.0628
24	30.70	-0.01	6.8151	-6.8594	0.0337	0.0308	-0.0216	0.4999	0.3418	0.1581	-1.0065
25	20.17	-0.01	3.6731	-5.9958	-0.0119	0.1175	-0.0229	0.5719	0.3152	0.2567	-1.6323
26	10.02	-0.00	1.5932	-3.2877	-0.0071	0.0550	-0.0093	0.5301	0.2682	0.2618	-2.0636
27	-0.01	-0.00	0.0040	-0.0792	-0.0176	0.0421	-0.0049	0.4958	0.2060	0.2898	-19.7709

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	173	1.20	2.3	0.0	B4W0F11	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	0.00	0.00	-0.0142	0.0478	-0.0050	-0.0060	-0.0054	0.5010	0.1747	0.3263	-3.3552
2	2.01	0.00	0.2352	-0.3626	-0.0023	-0.0078	-0.0055	0.5046	0.1779	0.3267	-1.5428
3	4.04	0.00	0.5139	-0.8540	-0.0001	-0.0057	-0.0042	0.5104	0.1790	0.3314	-1.6616
4	6.01	0.00	0.8088	-1.4257	0.0042	-0.0104	-0.0057	0.5281	0.1849	0.3431	-1.7627
5	8.04	-0.00	1.1436	-2.0931	0.0052	-0.0121	-0.0058	0.5422	0.1907	0.3515	-1.8303
6	10.04	-0.00	1.5099	-2.7921	0.0123	-0.0124	-0.0045	0.5504	0.2006	0.3497	-1.8492
7	12.07	-0.00	1.8938	-3.4549	0.0099	-0.0101	-0.0061	0.5476	0.2053	0.3423	-1.8243
8	14.10	-0.00	2.2991	-4.0587	0.0095	-0.0017	-0.0050	0.5505	0.2127	0.3377	-1.7653
9	16.12	-0.00	2.7244	-4.5887	0.0008	0.0310	-0.0039	0.5468	0.2138	0.3330	-1.6843
10	17.15	-0.00	2.9545	-4.8259	-0.0130	0.0640	-0.0027	0.5455	0.2167	0.3287	-1.6334
11	18.16	-0.00	3.1640	-4.8792	-0.0121	0.0719	-0.0088	0.5501	0.2193	0.3308	-1.5421
12	19.20	-0.01	3.4392	-5.0419	-0.0171	0.0833	-0.0149	0.5495	0.2259	0.3235	-1.4660
13	20.29	-0.01	3.7437	-5.2280	-0.0092	0.0801	-0.0187	0.5469	0.2358	0.3112	-1.3965
14	21.31	-0.01	4.0510	-5.3954	0.0101	0.0521	-0.0198	0.5426	0.2411	0.3015	-1.3319
15	22.33	-0.01	4.3538	-5.5582	0.0189	0.0393	-0.0181	0.5354	0.2458	0.2895	-1.2766
16	23.44	-0.01	4.7056	-5.7720	0.0452	-0.0164	-0.0114	0.5307	0.2504	0.2802	-1.2266
17	24.47	-0.01	5.0244	-5.9327	0.0758	-0.0739	-0.0046	0.5237	0.2535	0.2703	-1.1808
18	25.50	-0.01	5.3632	-6.0953	0.0869	-0.0957	0.0023	0.5185	0.2566	0.2619	-1.1365
19	26.58	-0.01	5.7365	-6.2403	0.1013	-0.0988	0.0051	0.5170	0.2636	0.2533	-1.0878
20	27.61	-0.01	6.0542	-6.2955	0.1044	-0.0905	0.0078	0.5197	0.2675	0.2522	-1.0399
21	28.69	-0.01	6.3995	-6.3590	0.1194	-0.0926	0.0064	0.5156	0.2841	0.2315	-0.9937
22	29.76	-0.01	6.7134	-6.4207	0.1565	-0.1898	0.0167	0.5151	0.2913	0.2237	-0.9564
23	30.84	-0.01	7.0549	-6.4698	0.2034	-0.2679	0.0160	0.5196	0.3071	0.2124	-0.9171
24	30.84	-0.01	7.0657	-6.4696	0.1979	-0.2646	0.0173	0.5200	0.3139	0.2061	-0.9156
25	20.27	-0.01	3.7330	-5.1899	-0.0093	0.0687	-0.0160	0.5461	0.2720	0.2741	-1.3903
26	10.03	-0.00	1.5157	-2.8431	0.0095	-0.0185	-0.0031	0.5370	0.2369	0.3001	-1.8757
27	-0.00	0.00	-0.0157	0.0098	-0.0022	-0.0153	-0.0012	0.4964	0.2077	0.2887	-0.6252

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RE10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	174	1.30	2.3	0.0	84=0F11	0.0	0	0	0	0	UNKNOWN

POINT	ALPHA	BETA	CN	CLN	CY	CLN	CLL	CA	CAB	CAF	XCP
1	0.00	0.00	-0.0274	0.0824	-0.0031	-0.0130	0.0027	0.4830	0.1897	0.2933	-3.8177
2	2.03	0.00	0.2787	-0.3141	-0.0013	-0.0053	0.0040	0.4836	0.1887	0.2948	-1.3737
3	4.04	0.00	0.5008	-0.7736	-0.0029	0.0053	0.0039	0.4882	0.1853	0.3029	-1.5448
4	6.03	-0.00	0.7883	-1.2798	-0.0016	0.0118	0.0025	0.5059	0.1823	0.3236	-1.6236
5	8.04	-0.00	1.1061	-1.8299	-0.0027	0.0122	0.0009	0.5218	0.1926	0.3292	-1.6544
6	10.09	-0.00	1.4603	-2.4022	0.0040	0.0129	-0.0006	0.5303	0.1978	0.3325	-1.6458
7	12.12	-0.00	1.8330	-2.9667	0.0061	0.0110	0.0003	0.5385	0.2026	0.3359	-1.6076
8	14.14	-0.00	2.2188	-3.4254	0.0072	0.0079	0.0011	0.5412	0.2063	0.3350	-1.5438
10	16.20	-0.00	2.6822	-3.8915	0.0038	0.0207	0.0030	0.5390	0.2168	0.3222	-1.4589
11	17.24	-0.00	2.9352	-4.0681	-0.0009	0.0396	0.0024	0.5356	0.2204	0.3152	-1.3868
12	18.26	-0.00	3.2179	-4.2290	-0.0073	0.0568	-0.0011	0.5341	0.2248	0.3093	-1.3142
13	19.31	-0.01	3.5137	-4.3834	-0.0033	0.0592	-0.0035	0.5338	0.2280	0.3058	-1.2477
14	20.36	-0.01	3.7929	-4.4915	0.0014	0.0560	-0.0045	0.5295	0.2326	0.2969	-1.1842
15	21.41	-0.01	4.0758	-4.5954	0.0106	0.0362	-0.0058	0.5239	0.2358	0.2881	-1.1275
16	22.46	-0.01	4.3907	-4.6872	0.0303	0.0074	-0.0032	0.5223	0.2377	0.2846	-1.0675
17	23.51	-0.01	4.7037	-4.7743	0.0474	-0.0212	-0.0033	0.5223	0.2386	0.2837	-1.0150
18	24.57	-0.01	5.0505	-4.8861	0.0665	-0.0554	-0.0022	0.5250	0.2477	0.2773	-0.9678
19	25.61	-0.01	5.3696	-4.9980	0.0835	-0.0909	0.0015	0.5264	0.2550	0.2713	-0.9308
20	26.69	-0.01	5.7660	-5.1677	0.1004	-0.1156	0.0079	0.5302	0.2642	0.2661	-0.8997
21	27.76	-0.01	6.0983	-5.3459	0.0990	-0.1191	0.0106	0.5292	0.2708	0.2584	-0.8766
22	28.82	-0.01	6.4914	-5.5793	0.1013	-0.0928	0.0029	0.5316	0.2770	0.2545	-0.8595
23	29.88	-0.01	6.8606	-5.8172	0.0952	-0.0561	-0.0005	0.5361	0.2843	0.2518	-0.8479
24	30.91	-0.01	7.2112	-6.0478	0.0970	-0.0598	-0.0003	0.5403	0.2928	0.2475	-0.8387
25	20.34	-0.01	3.7899	-4.4394	-0.0013	0.0602	-0.0033	0.5317	0.2945	0.2372	-1.1714
26	10.08	-0.00	1.4848	-2.5058	0.0045	0.0099	0.0008	0.5168	0.2569	0.2599	-1.6876
27	-0.00	0.00	-0.0195	0.0416	-0.0040	-0.0120	0.0055	0.4782	0.2168	0.2614	-2.1373

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	178	0.80	2.3	0.0	B2=0P0	0.0	OFF	OFF	OFF	OFF	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-2.04	0.00	-0.0874	-0.1920	-0.0067	-0.0065	-0.0072	0.2343	0.1079	0.1264	2.1965
2	-1.01	0.00	-0.0371	-0.1114	-0.0064	-0.0035	-0.0093	0.2309	0.0999	0.1311	3.0050
3	0.01	0.00	0.0101	-0.0172	-0.0049	-0.0025	-0.0096	0.2306	0.1025	0.1281	-1.6973
4	1.01	0.00	0.0544	0.0732	-0.0045	0.0005	-0.0102	0.2324	0.1015	0.1309	1.3448
5	2.02	0.00	0.1009	0.1597	-0.0053	-0.0008	-0.0109	0.2344	0.1016	0.1327	1.5817
6	3.03	0.00	0.1495	0.2513	-0.0023	0.0022	-0.0115	0.2384	0.1041	0.1343	1.6805
7	4.07	0.00	0.1999	0.3384	-0.0042	0.0072	-0.0103	0.2426	0.1080	0.1345	1.6933
8	5.04	-0.00	0.2481	0.4271	-0.0038	0.0081	-0.0127	0.2499	0.1151	0.1348	1.7213
9	6.12	-0.00	0.3034	0.5215	-0.0069	0.0175	-0.0134	0.2594	0.1230	0.1364	1.7199
10	8.13	-0.00	0.4241	0.6727	-0.0132	0.0338	-0.0146	0.2736	0.1371	0.1365	1.5868
11	10.15	-0.00	0.5695	0.8053	-0.0179	0.0478	-0.0141	0.2809	0.1509	0.1299	1.4141
12	12.18	-0.00	0.7351	0.9353	-0.0324	0.0810	-0.0154	0.2828	0.1622	0.1207	1.2723
13	15.23	-0.00	1.0106	1.1758	-0.0630	0.1599	-0.0157	0.2838	0.1801	0.1036	1.1634
14	18.34	-0.00	1.3359	1.4050	-0.0907	0.2452	-0.0161	0.2754	0.1938	0.0816	1.0518
15	21.42	-0.00	1.7126	1.6518	-0.0732	0.2160	-0.0174	0.2581	0.1986	0.0596	0.9645
16	24.49	-0.00	2.1400	1.8789	0.0404	-0.0391	-0.0168	0.2316	0.2165	0.0151	0.8788
17	27.58	-0.01	2.6332	2.0820	0.3451	-0.7338	-0.0172	0.1953	0.2333	-0.0380	0.7987
18	30.71	-0.04	3.2967	1.9227	1.1388	-1.9905	-0.0170	0.1702	0.2441	-0.0739	0.5832
19	30.71	-0.04	3.2946	1.9610	1.1217	-2.0079	-0.0174	0.1669	0.2492	-0.0823	0.5952
20	15.20	-0.00	0.9830	1.3586	-0.0038	0.1646	-0.0126	0.2778	0.2264	0.0514	1.3822
21	5.08	-0.00	0.2170	0.5922	-0.0052	0.0115	-0.0095	0.2536	0.1497	0.1039	2.7293
22	0.00	0.00	-0.0137	0.0977	-0.0051	0.0028	-0.0062	0.2355	0.1148	0.1206	-7.1365

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	179	0.85	2.3	0.0	B2W0F0	0.0	OFF	OFF	OFF	OFF	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-2.03	0.00	-0.0966	-0.1374	-0.0042	-0.0037	-0.0069	0.2409	0.0998	0.1411	1.4231
2	-1.02	0.00	-0.0483	-0.0558	-0.0075	0.0012	-0.0090	0.2373	0.1032	0.1341	1.1547
3	0.00	0.00	0.0019	0.0304	-0.0084	0.0042	-0.0076	0.2344	0.1010	0.1334	15.0332
4	1.01	0.00	0.0519	0.1223	-0.0055	0.0030	-0.0101	0.2366	0.1141	0.1225	2.3550
5	2.06	0.00	0.0939	0.2182	-0.0039	0.0059	-0.0106	0.2382	0.1098	0.1283	2.3230
6	3.01	0.00	0.1383	0.3018	-0.0070	0.0087	-0.0112	0.2413	0.1119	0.1294	2.1823
7	4.07	0.00	0.1922	0.3956	-0.0053	0.0096	-0.0102	0.2467	0.1145	0.1321	2.0584
8	5.09	-0.00	0.2429	0.4846	-0.0048	0.0125	-0.0108	0.2544	0.1190	0.1354	1.9950
9	6.09	-0.00	0.2962	0.5708	-0.0066	0.0153	-0.0132	0.2618	0.1270	0.1347	1.9269
10	8.10	-0.00	0.4172	0.7202	-0.0114	0.0290	-0.0145	0.2765	0.1404	0.1361	1.7263
11	10.14	-0.00	0.5674	0.8624	-0.0182	0.0489	-0.0140	0.2836	0.1534	0.1302	1.5199
12	12.21	-0.00	0.7371	1.0048	-0.0286	0.0772	-0.0154	0.2840	0.1632	0.1208	1.3633
13	15.27	-0.00	1.0180	1.2334	-0.0654	0.1679	-0.0174	0.2817	0.1775	0.1042	1.2116
14	18.39	-0.00	1.3570	1.4696	-0.0853	0.2432	-0.0197	0.2741	0.1904	0.0837	1.0830
15	21.45	-0.00	1.7326	1.7327	-0.0364	0.1278	-0.0183	0.2542	0.2201	0.0341	1.0000
16	24.51	-0.01	2.1882	1.9849	0.0955	-0.1596	-0.0199	0.2325	0.2204	0.0121	0.9071
17	27.65	-0.01	2.7294	2.1303	0.5197	-1.0178	-0.0192	0.1989	0.2351	-0.0363	0.7805
18	30.78	-0.05	3.4138	2.1658	0.9671	-1.4883	-0.0207	0.1734	0.2362	-0.0628	0.6344
19	15.27	-0.00	0.9960	1.3539	-0.0591	0.1557	-0.0160	0.2806	0.1966	0.0840	1.3593
20	5.08	0.00	0.2210	0.5838	-0.0061	0.0112	-0.0111	0.2595	0.1496	0.1099	2.6411
21	0.00	0.00	-0.0183	0.1034	-0.0074	0.0048	-0.0078	0.2416	0.1358	0.1058	-5.6652

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	180	0.92	2.3	0.0	B2W0F0	0.0	OFF	OFF	OFF	OFF	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	0.00	0.00	-0.0078	0.0693	-0.0069	0.0043	-0.0090	0.2401	0.0802	0.1598	-8.9289
3	-2.04	0.00	-0.1007	-0.1303	-0.0040	-0.0036	-0.0098	0.2438	0.1136	0.1302	1.2936
4	-1.00	0.00	-0.0526	-0.0447	-0.0083	0.0012	-0.0102	0.2391	0.1113	0.1278	0.8495
5	1.01	0.00	0.0441	0.1272	-0.0064	0.0029	-0.0112	0.2379	0.1092	0.1286	2.8814
6	2.05	-0.00	0.0913	0.2234	-0.0013	0.0038	-0.0118	0.2416	0.1136	0.1281	2.4476
7	3.03	0.00	0.1331	0.3025	-0.0066	0.0104	-0.0124	0.2447	0.1111	0.1335	2.2715
8	4.05	-0.00	0.1905	0.3941	-0.0038	0.0093	-0.0131	0.2527	0.1080	0.1448	2.0688
9	5.06	-0.00	0.2381	0.4699	-0.0055	0.0121	-0.0137	0.2599	0.1169	0.1429	2.0577
10	6.11	-0.00	0.2946	0.5753	-0.0049	0.0167	-0.0144	0.2699	0.1257	0.1442	1.9204
11	8.11	-0.00	0.4249	0.7242	-0.0128	0.0318	-0.0157	0.2851	0.1438	0.1413	1.7043
12	10.19	-0.00	0.5825	0.8539	-0.0134	0.0467	-0.0153	0.2919	0.1565	0.1353	1.4659
13	12.24	-0.00	0.7553	1.0026	-0.0185	0.0598	-0.0169	0.2941	0.1682	0.1259	1.3274
14	15.27	-0.00	1.0393	1.2353	-0.0473	0.1380	-0.0206	0.2907	0.1824	0.1083	1.1886
15	18.37	-0.01	1.3819	1.4922	-0.0711	0.2128	-0.0214	0.2829	0.2047	0.0782	1.0798
16	21.48	-0.01	1.7917	1.7903	-0.0022	0.0541	-0.0208	0.2693	0.2159	0.0534	0.9992
17	24.57	-0.01	2.2922	2.0487	0.1723	-0.1724	-0.0206	0.2523	0.2281	0.0242	0.8938
18	27.73	-0.03	2.9098	2.5176	0.2856	-0.3110	-0.0220	0.2233	0.2370	-0.0137	0.8652
19	30.99	-0.07	3.7699	3.3489	0.3631	0.0567	-0.0265	0.1976	0.2580	-0.0604	0.8883
20	15.31	-0.00	1.0147	1.3973	-0.0224	0.0827	-0.0164	0.2873	0.2136	0.0737	1.3771
21	5.09	-0.00	0.2186	0.5994	-0.0060	0.0168	-0.0124	0.2620	0.1738	0.0882	2.7423
22	0.02	0.00	-0.0221	0.1220	-0.0059	0.0086	-0.0107	0.2403	0.1353	0.1050	-5.5182

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	181	0.90	2.3	0.0	B2W0F0	0.0	OFF	OFF	OFF	OFF	UNKNOWN

POINT	ALPHA	BETA	CN	CLN	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-2.03	0.00	-0.1042	-0.1235	-0.0028	0.0003	-0.0093	0.2698	0.1065	0.1633	1.1851
2	-1.00	0.00	-0.0501	-0.0428	-0.0046	0.0030	-0.0113	0.2692	0.1138	0.1554	0.8462
3	-1.00	0.00	-0.0503	-0.0388	-0.0014	-0.0025	-0.0097	0.2683	0.1229	0.1454	0.7719
4	-0.01	0.00	-0.0074	0.0547	-0.0044	0.0077	-0.0117	0.2682	0.1196	0.1485	-7.4398
5	1.04	0.00	0.0508	0.1335	-0.0027	0.0047	-0.0124	0.2691	0.1177	0.1514	2.6291
6	2.05	0.00	0.0995	0.2238	-0.0044	0.0056	-0.0130	0.2722	0.1188	0.1534	2.2488
7	3.08	-0.00	0.1478	0.3186	-0.0050	0.0120	-0.0136	0.2807	0.1203	0.1604	2.1555
8	4.06	-0.00	0.1963	0.4074	-0.0023	0.0128	-0.0127	0.2842	0.1250	0.1591	2.0289
9	5.08	-0.00	0.2518	0.4929	-0.0040	0.0136	-0.0150	0.2927	0.1293	0.1634	1.9577
10	6.08	-0.00	0.3114	0.5837	-0.0066	0.0200	-0.0141	0.3138	0.1484	0.1653	1.8742
11	7.13	-0.00	0.3827	0.6657	-0.0036	0.0301	-0.0147	0.3196	0.1535	0.1661	1.7396
12	8.17	-0.00	0.4440	0.7425	-0.0106	0.0362	-0.0154	0.3267	0.1641	0.1626	1.6721
13	10.21	-0.00	0.6017	0.8953	-0.0144	0.0526	-0.0168	0.3376	0.1736	0.1639	1.4879
14	12.26	-0.00	0.7826	1.0614	-0.0200	0.0613	-0.0169	0.3468	0.1811	0.1657	1.3558
15	15.34	-0.00	1.0910	1.3212	-0.0311	0.1031	-0.0194	0.3425	0.2020	0.1405	1.2118
16	18.44	-0.01	1.4666	1.6128	-0.0475	0.1574	-0.0191	0.3414	0.2234	0.1179	1.0997
17	21.56	-0.01	1.9778	1.9578	0.0712	-0.0739	-0.0197	0.3172	0.2458	0.0714	0.9909
18	21.57	-0.01	1.9866	2.0093	0.0298	-0.0064	-0.0182	0.3299	0.2496	0.0803	1.0113
19	24.73	-0.01	2.6685	2.5145	0.0987	-0.0882	-0.0208	0.3130	0.2584	0.0546	0.9423
20	27.95	-0.04	3.5066	3.3105	0.1673	0.0928	-0.0241	0.3041	0.2670	0.0371	0.9441
21	31.23	-0.07	4.4786	4.1750	0.2381	0.2921	-0.0266	0.2828	0.2777	0.0051	0.9322
22	15.33	-0.00	1.0567	1.4974	-0.0271	0.0936	-0.0136	0.3361	0.2736	0.0625	1.4175
23	5.10	-0.00	0.2263	0.6113	-0.0084	0.0237	-0.0104	0.3011	0.1956	0.1055	2.7012
24	5.10	-0.00	0.2328	0.5970	-0.0051	0.0238	-0.0104	0.2935	0.1926	0.1009	2.5649
25	0.01	0.00	-0.0160	0.1169	-0.0045	0.0064	-0.0088	0.2662	0.1472	0.1189	-6.9604

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	182	1.10	2.3	0.0	B2W0F0	0.0	OFF	OFF	OFF	OFF	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-2.05	-0.00	-0.1169	-0.1277	-0.0155	0.0494	-0.0085	0.4326	0.1452	0.2874	1.0923
2	-1.03	-0.00	-0.0647	-0.0383	-0.0151	0.0535	-0.0073	0.4255	0.1578	0.2678	0.5919
3	0.01	-0.00	-0.0094	0.0583	-0.0157	0.0580	-0.0092	0.4243	0.1621	0.2622	-6.1708
4	1.04	-0.00	0.0415	0.1551	-0.0142	0.0606	-0.0099	0.4245	0.1663	0.2582	3.7401
5	2.08	-0.00	0.0923	0.2604	-0.0147	0.0634	-0.0106	0.4263	0.1714	0.2549	2.8211
6	3.06	-0.00	0.1404	0.3576	-0.0142	0.0676	-0.0112	0.4327	0.1687	0.2640	2.5462
7	4.10	-0.00	0.1968	0.4568	-0.0146	0.0703	-0.0105	0.4415	0.1723	0.2692	2.3206
8	5.09	-0.00	0.2487	0.5591	-0.0141	0.0729	-0.0112	0.4512	0.1807	0.2704	2.2486
9	6.13	-0.00	0.3122	0.6588	-0.0154	0.0773	-0.0134	0.4651	0.1830	0.2821	2.1181
10	8.19	-0.00	0.4511	0.8462	-0.0181	0.0880	-0.0134	0.4827	0.2030	0.2797	1.8758
11	10.24	-0.01	0.6172	0.9962	-0.0233	0.1061	-0.0134	0.4909	0.2171	0.2738	1.6141
12	12.29	-0.01	0.8002	1.1919	-0.0244	0.1130	-0.0137	0.4964	0.2571	0.2392	1.4896
13	15.36	-0.01	1.1333	1.4676	-0.0220	0.1124	-0.0138	0.5006	0.2624	0.2382	1.2950
14	18.49	-0.01	1.5659	1.7856	-0.0286	0.1497	-0.0172	0.5009	0.2725	0.2284	1.1403
15	21.67	-0.01	2.1990	2.1947	0.0580	-0.0449	-0.0162	0.4894	0.2867	0.2027	0.9980
16	24.85	-0.02	2.9525	2.7719	0.0877	-0.0387	-0.0193	0.4803	0.2945	0.1858	0.9388
17	28.13	-0.04	3.8609	3.3404	0.1826	0.0072	-0.0219	0.4792	0.3033	0.1759	0.8652
18	31.34	-0.06	4.7774	3.7016	0.2441	0.1806	-0.0244	0.4864	0.3093	0.1770	0.7748
19	15.35	-0.01	1.1046	1.6207	-0.0184	0.0967	-0.0100	0.4976	0.3096	0.1880	1.4672
20	5.13	-0.00	0.2237	0.6776	-0.0163	0.0809	-0.0071	0.4581	0.2640	0.1941	3.0289
21	0.02	-0.00	-0.0327	0.1545	-0.0201	0.0625	-0.0037	0.4245	0.2189	0.2056	-4.7249

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RE10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	183	1.20	2.3	0.0	B2=0F0	0.0	OFF	OFF	OFF	OFF	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-2.03	0.00	-0.1165	-0.1289	-0.0083	0.0113	-0.0029	0.4348	0.1933	0.2416	1.1066
2	-1.03	0.00	-0.0654	-0.0204	-0.0090	0.0174	-0.0033	0.4304	0.1821	0.2482	0.3116
3	-0.00	0.00	-0.0166	0.1054	-0.0096	0.0152	-0.0039	0.4271	0.1744	0.2527	-6.2762
4	1.05	0.00	0.0393	0.2117	-0.0081	0.0162	-0.0046	0.4284	0.1734	0.2531	5.3835
5	2.06	-0.00	0.0856	0.3392	-0.0057	0.0174	-0.0053	0.4284	0.1754	0.2530	3.9626
6	3.06	-0.00	0.1369	0.4585	-0.0071	0.0184	-0.0061	0.4315	0.1699	0.2616	3.3486
7	4.06	0.00	0.1868	0.5836	-0.0123	0.0228	-0.0055	0.4415	0.1711	0.2704	3.1284
8	5.12	-0.00	0.2406	0.7244	-0.0059	0.0273	-0.0063	0.4557	0.1721	0.2835	3.0082
9	6.14	0.00	0.3005	0.8546	-0.0149	0.0219	-0.0060	0.4655	0.1762	0.2893	2.8442
10	6.13	-0.01	0.3035	0.8406	0.0110	0.0205	-0.0069	0.4645	0.1849	0.2796	2.7699
11	7.17	0.00	0.3669	0.9585	-0.0248	0.0309	-0.0068	0.4751	0.1879	0.2872	2.6121
12	8.22	-0.00	0.4458	1.0610	-0.0125	0.0336	-0.0061	0.4868	0.1938	0.2930	2.3799
13	10.24	-0.00	0.6214	1.2454	0.0017	0.0290	-0.0077	0.4882	0.2019	0.2863	2.0042
14	12.33	-0.00	0.8339	1.4529	-0.0115	0.0391	-0.0098	0.4912	0.2069	0.2844	1.7423
15	15.45	-0.00	1.2050	1.7757	-0.0086	0.0538	-0.0130	0.4983	0.2206	0.2777	1.4736
16	18.61	-0.01	1.7347	2.1756	-0.0249	0.1176	-0.0143	0.5023	0.2330	0.2693	1.2542
17	21.79	-0.01	2.5065	2.6557	0.0290	0.0226	-0.0181	0.4993	0.2491	0.2502	1.0595
18	25.04	-0.02	3.3638	3.1556	0.0902	0.0139	-0.0201	0.4999	0.2628	0.2371	0.9381
19	28.29	-0.03	4.2870	3.5408	0.1616	-0.0054	-0.0219	0.5052	0.2731	0.2321	0.8259
20	31.55	-0.05	5.3749	3.5781	0.1564	0.1947	-0.0260	0.4947	0.2663	0.2084	0.6653
21	15.43	-0.00	1.1832	1.8949	-0.0127	0.0547	-0.0106	0.4946	0.2915	0.2031	1.6015
22	5.13	-0.00	0.2312	0.7903	0.0025	0.0166	-0.0079	0.4545	0.2499	0.2045	3.4179
23	-0.00	0.00	-0.0189	0.1292	-0.0068	0.0089	-0.0054	0.4305	0.2092	0.2212	-6.8282

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	184	1.30	2.3	0.0	B2B0F0	0.0	OFF	OFF	OFF	OFF	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-2.04	0.00	-0.1079	-0.1325	-0.0034	-0.0049	-0.0056	0.4166	0.1589	0.2577	1.2285
2	-1.01	0.00	-0.0524	-0.0166	-0.0088	-0.0037	-0.0075	0.4130	0.1641	0.2490	0.3157
3	-0.00	0.00	-0.0032	0.1064	-0.0065	0.0072	-0.0080	0.4126	0.1645	0.2481	-32.7993
4	1.00	-0.00	0.0476	0.2296	0.0034	0.0050	-0.0073	0.4128	0.1648	0.2480	4.8279
5	2.03	0.00	0.0980	0.3566	-0.0110	0.0140	-0.0095	0.4143	0.1649	0.2494	3.6393
6	3.08	0.00	0.1519	0.4838	-0.0114	0.0104	-0.0090	0.4185	0.1662	0.2523	3.1848
7	4.10	-0.00	0.2073	0.6048	-0.0043	0.0194	-0.0109	0.4261	0.1677	0.2585	2.9180
8	5.10	-0.00	0.2645	0.7240	-0.0026	0.0395	-0.0102	0.4388	0.1706	0.2682	2.7371
9	6.13	-0.00	0.3349	0.8336	-0.0095	0.0310	-0.0112	0.4484	0.1747	0.2737	2.4886
10	8.24	-0.00	0.4934	1.0313	-0.0069	0.0440	-0.0128	0.4669	0.1796	0.2873	2.0901
11	10.25	-0.00	0.6724	1.2051	-0.0237	0.0582	-0.0146	0.4741	0.1867	0.2874	1.7922
12	12.35	-0.00	0.8864	1.4303	-0.0139	0.0732	-0.0150	0.4848	0.1953	0.2895	1.6136
13	15.43	-0.00	1.2853	1.8059	-0.0202	0.0800	-0.0174	0.4914	0.2104	0.2810	1.4050
14	18.67	-0.00	1.8439	2.2647	0.0087	0.0073	-0.0204	0.4978	0.2238	0.2740	1.1958
15	21.92	-0.01	2.7014	2.7833	0.0280	0.0273	-0.0238	0.5034	0.2418	0.2616	1.0303
16	25.08	-0.02	3.5802	3.0881	0.0674	0.0045	-0.0270	0.5101	0.2550	0.2550	0.8626
17	28.38	-0.03	4.5943	3.2168	0.0556	0.1178	-0.0308	0.5277	0.2653	0.2624	0.7002
18	31.58	-0.02	5.6938	2.8847	0.1128	-0.0479	-0.0315	0.5249	0.2804	0.2445	0.5066
19	31.59	-0.02	5.7017	2.9116	0.1027	-0.0413	-0.0317	0.5186	0.2878	0.2308	0.5107

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	187	0.80	2.3	0.0	B5W0F0	0.0	OFF	OFF	OFF	OFF	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-2.03	0.00	-0.0909	-0.1253	-0.0043	-0.0015	-0.0054	0.2559	0.1108	0.1450	1.3796
2	-1.01	0.00	-0.0454	-0.0627	-0.0053	0.0034	-0.0075	0.2530	0.1055	0.1475	1.3807
3	0.01	0.00	0.0023	0.0005	-0.0025	0.0020	-0.0078	0.2499	0.0963	0.1536	0.2345
4	1.01	0.00	0.0466	0.0638	-0.0033	0.0047	-0.0083	0.2496	0.0982	0.1514	1.3686
5	-0.01	0.00	0.0023	0.0050	-0.0062	0.0041	-0.0078	0.2505	0.0996	0.1510	2.2179
6	2.01	0.00	0.0903	0.1271	-0.0028	0.0032	-0.0088	0.2499	0.0978	0.1521	1.4078
7	2.01	0.00	0.0930	0.1276	-0.0028	0.0053	-0.0088	0.2527	0.1023	0.1504	1.3710
8	3.05	0.00	0.1392	0.1920	-0.0036	0.0059	-0.0075	0.2553	0.1044	0.1508	1.3796
9	4.04	-0.00	0.1801	0.2572	-0.0032	0.0065	-0.0099	0.2578	0.1080	0.1498	1.4277
10	5.07	-0.00	0.2331	0.3185	-0.0014	0.0050	-0.0104	0.2613	0.1144	0.1469	1.3660
11	6.07	-0.00	0.2804	0.3842	0.0003	0.0035	-0.0110	0.2662	0.1198	0.1464	1.3699
12	8.12	-0.00	0.3899	0.4921	0.0002	0.0109	-0.0102	0.2761	0.1283	0.1478	1.2621
13	10.13	-0.00	0.5204	0.5687	0.0041	0.0096	-0.0113	0.2813	0.1521	0.1292	1.0926
14	12.14	-0.00	0.6755	0.6317	0.0107	0.0017	-0.0125	0.2823	0.1607	0.1216	0.9352
15	15.22	-0.00	0.9486	0.7364	0.0122	0.0072	-0.0126	0.2715	0.1800	0.0915	0.7763
16	18.27	-0.00	1.2690	0.8528	-0.0108	0.0555	-0.0111	0.2571	0.1948	0.0623	0.6720
17	21.37	-0.00	1.6512	0.8763	-0.4210	1.0292	-0.0095	0.2460	0.1882	0.0578	0.5307
18	21.36	-0.01	1.6191	0.9969	0.0294	0.0317	-0.0079	0.2341	0.2323	0.0018	0.6145
19	24.43	-0.00	2.0489	0.9962	-0.4012	0.9723	-0.0054	0.2111	0.2188	-0.0077	0.4853
20	27.49	0.17	2.9406	0.0468	-2.0020	2.1280	0.0014	0.2288	0.2411	-0.0123	0.0159
21	30.65	0.38	3.4278	0.8583	-1.9148	-1.4162	0.0202	0.2023	0.3085	-0.1062	0.2504
22	15.20	-0.00	0.9252	0.6249	0.0082	0.0122	-0.0038	0.2671	0.2121	0.0551	0.8915
23	5.07	0.00	0.2045	0.4112	-0.0029	0.0036	0.0002	0.2597	0.1538	0.1059	2.0105
24	0.00	0.00	-0.0159	0.0582	-0.0052	-0.0018	0.0011	0.2439	0.1283	0.1156	-3.6554

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	188	0.65	2.3	0.0	B5W0F0	0.0	OFF	OFF	OFF	OFF	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	0.00	0.00	-0.0103	0.0388	-0.0062	-0.0019	0.0010	0.2553	0.0469	0.1884	-3.7793
2	-2.03	0.00	-0.0948	-0.1036	-0.0067	-0.0054	0.0017	0.2617	0.0987	0.1626	1.0929
3	-1.00	0.00	-0.0509	-0.0433	-0.0057	-0.0027	0.0014	0.2574	0.1011	0.1562	0.8502
4	1.02	0.00	0.0398	0.0667	-0.0056	0.0006	0.0006	0.2533	0.1022	0.1511	2.1808
5	2.06	0.00	0.0869	0.1482	-0.0040	0.0012	0.0000	0.2548	0.1025	0.1523	1.7060
6	3.03	0.00	0.1285	0.2097	-0.0035	0.0039	-0.0004	0.2577	0.1069	0.1508	1.6318
7	4.05	0.00	0.1787	0.2743	-0.0055	0.0045	-0.0010	0.2633	0.1128	0.1505	1.5351
8	5.09	0.00	0.2265	0.3365	-0.0038	0.0051	-0.0015	0.2665	0.1155	0.1510	1.4857
9	6.06	0.00	0.2707	0.4012	-0.0021	0.0036	-0.0021	0.2731	0.1235	0.1496	1.4816
10	8.14	-0.00	0.3897	0.5027	-0.0009	0.0067	-0.0014	0.2825	0.1342	0.1484	1.2902
11	10.14	-0.00	0.5194	0.5706	0.0016	0.0074	-0.0024	0.2859	0.1501	0.1358	1.0989
12	10.14	-0.00	0.5194	0.5786	0.0041	0.0054	-0.0025	0.2894	0.1587	0.1308	1.1139
13	12.14	-0.00	0.6795	0.6344	0.0117	-0.0063	-0.0037	0.2883	0.1649	0.1234	0.9337
14	14.21	-0.00	0.8520	0.7072	0.0158	-0.0117	-0.0050	0.2798	0.1795	0.1003	0.8300
15	18.31	-0.00	1.2742	0.8873	0.0838	-0.1578	-0.0055	0.2605	0.1962	0.0643	0.6942
16	21.36	-0.00	1.6543	0.9611	0.2013	-0.6026	-0.0002	0.2476	0.2009	0.0466	0.5810
17	24.43	-0.00	2.0879	1.0328	-0.3552	0.8261	-0.0018	0.2155	0.2359	-0.0204	0.4947
18	27.55	0.21	3.0403	0.0851	-1.9947	1.6330	0.0080	0.2307	0.2453	-0.0146	0.0200
19	30.71	0.39	3.5416	0.9147	-1.4310	-2.4331	0.0245	0.2177	0.2498	-0.0321	0.2583
20	30.70	0.42	3.5677	0.7474	-1.2951	-3.2399	0.0287	0.2156	0.2878	-0.0722	0.2095
21	15.23	-0.00	0.9380	0.8456	0.0083	0.0040	0.0046	0.2779	0.2384	0.0395	0.9016
22	5.05	0.00	0.2033	0.4029	-0.0017	-0.0068	0.0070	0.2697	0.1654	0.1042	1.9817
23	-0.01	0.00	-0.0200	0.0552	-0.0015	-0.0140	0.0096	0.2538	0.1109	0.1429	-2.7649
24	-2.02	0.00	-0.0958	-0.1059	-0.0041	-0.0149	0.0096	0.2862	0.1038	0.1824	1.1047

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	189	0.92	2.3	0.0	BSWBF0	0.0	OFF	OFF	OFF	OFF	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-2.02	0.00	-0.0955	-0.1096	-0.0052	-0.0149	0.0096	0.2863	0.1082	0.1781	1.1474
2	-1.01	0.00	-0.0504	-0.0535	-0.0038	-0.0104	0.0111	0.2824	0.1071	0.1753	1.0618
3	0.01	0.00	-0.0049	0.0162	-0.0036	-0.0078	0.0091	0.2823	0.1041	0.1782	-3.3182
4	1.03	0.00	0.0423	0.0779	-0.0054	-0.0091	0.0085	0.2808	0.1070	0.1738	1.8402
5	2.02	0.00	0.0846	0.1405	-0.0027	-0.0066	0.0081	0.2818	0.1057	0.1761	1.6559
6	3.05	0.00	0.1317	0.2080	-0.0045	-0.0021	0.0076	0.2867	0.1102	0.1765	1.5799
7	4.05	0.00	0.1750	0.2704	-0.0040	-0.0015	0.0070	0.2921	0.1115	0.1806	1.5448
8	5.09	0.00	0.2252	0.3339	-0.0024	-0.0028	0.0064	0.2988	0.1195	0.1793	1.4827
9	6.09	0.00	0.2786	0.3874	-0.0053	0.0016	0.0076	0.3035	0.1268	0.1767	1.3908
10	8.10	-0.00	0.3922	0.4817	-0.0006	0.0045	0.0050	0.3178	0.1413	0.1766	1.2282
11	10.17	-0.00	0.5347	0.5501	0.0020	0.0033	0.0055	0.3253	0.1494	0.1759	1.0249
12	12.17	-0.00	0.6969	0.6127	0.0047	0.0020	0.0043	0.3222	0.1672	0.1550	0.8792
13	15.21	-0.00	0.9854	0.7460	-0.0003	0.0229	0.0039	0.3109	0.1970	0.1239	0.7570
14	18.35	-0.00	1.3424	0.8879	0.0522	-0.0746	0.0042	0.2958	0.2108	0.0850	0.6615
15	21.40	-0.00	1.7293	1.0345	-0.0156	0.0533	0.0052	0.2704	0.2219	0.0485	0.5982
16	24.51	0.11	2.4415	0.5226	-1.2182	1.3947	0.0098	0.2671	0.2384	0.0287	0.2148
18	30.80	0.33	3.8796	0.8654	-0.5346	-3.4675	0.0282	0.2511	0.3090	-0.0579	0.2231
19	15.25	-0.00	0.9744	0.6300	0.0087	0.0042	0.0101	0.3181	0.2315	0.0866	0.8518
20	5.06	0.00	0.2075	0.3879	-0.0026	-0.0082	0.0146	0.3021	0.1596	0.1425	1.8691

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	190	0.90	2.3	0.0	85=0F0	0.0	OFF	OFF	OFF	OFF	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-2.03	0.00	-0.1021	-0.1010	-0.0029	-0.0178	0.0153	0.3287	0.0945	0.2342	0.9894
2	-1.01	0.00	-0.0565	-0.0392	-0.0027	-0.0134	0.0165	0.3308	0.1023	0.2285	0.6708
3	-0.00	0.00	-0.0090	0.0190	-0.0034	-0.0091	0.0147	0.3269	0.1095	0.2174	-2.1065
4	1.02	0.00	0.0378	0.0853	-0.0051	-0.0067	0.0141	0.3299	0.1093	0.2206	2.2579
6	3.05	0.00	0.1353	0.2046	-0.0020	-0.0037	0.0147	0.3376	0.1159	0.2216	1.5118
7	4.07	0.00	0.1790	0.2684	-0.0026	-0.0013	0.0142	0.3424	0.1201	0.2223	1.4993
8	5.06	0.00	0.2289	0.3249	-0.0032	0.0011	0.0121	0.3476	0.1285	0.2191	1.4196
9	6.08	0.00	0.2834	0.3790	-0.0015	0.0016	0.0132	0.3571	0.1311	0.2260	1.3370
10	8.14	0.00	0.4029	0.4673	-0.0025	0.0044	0.0121	0.3678	0.1485	0.2193	1.1599
11	10.19	-0.00	0.5537	0.5334	0.0012	0.0106	0.0111	0.3778	0.1699	0.2079	0.9633
12	12.20	-0.00	0.7180	0.5967	-0.0014	0.0169	0.0114	0.3793	0.1783	0.2009	0.8311
13	15.28	-0.00	1.0230	0.7107	-0.0111	0.0567	0.0094	0.3796	0.1847	0.1949	0.6947
14	18.36	-0.00	1.3699	0.8371	0.0172	-0.0004	0.0098	0.3564	0.2163	0.1401	0.6023
15	21.47	-0.00	1.8426	0.9541	0.0701	-0.1096	0.0109	0.3775	0.2427	0.0848	0.5178
17	27.74	0.20	3.3086	0.9558	-1.0484	-0.2182	0.0202	0.3046	0.2874	0.0171	0.2889
18	30.90	0.26	4.1695	1.2255	-0.4314	-2.5332	0.0264	0.2929	0.3026	-0.0097	0.2939
19	30.92	0.26	4.2003	1.2247	-0.4095	-2.5569	0.0272	0.2990	0.3137	-0.0147	0.2916
20	15.24	-0.00	0.9980	0.7936	-0.0168	0.0649	0.0187	0.3777	0.2750	0.1027	0.7951
21	5.07	0.00	0.2093	0.3868	0.0010	-0.0057	0.0214	0.3505	0.2105	0.1400	1.8480
22	-0.00	0.00	-0.0246	0.0564	-0.0036	-0.0162	0.0223	0.3274	0.1468	0.1805	-2.3176

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	191	1.10	2.3	0.0	BS=OFF	0.0	OFF	OFF	OFF	OFF	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-2.04	0.00	-0.0916	-0.1526	-0.0144	0.0219	0.0271	0.4331	0.1571	0.2760	1.6614
2	-1.03	0.00	-0.0442	-0.0964	-0.0152	0.0245	0.0270	0.4280	0.1536	0.2744	2.1823
3	-0.01	0.00	0.0077	-0.0279	-0.0159	0.0321	0.0268	0.4281	0.1622	0.2659	-3.6193
4	1.03	0.00	0.0532	0.0409	-0.0145	0.0310	0.0262	0.4309	0.1687	0.2622	0.7683
5	2.03	0.00	0.0996	0.1059	-0.0168	0.0399	0.0256	0.4328	0.1687	0.2641	1.0631
6	3.07	-0.00	0.1493	0.1706	-0.0152	0.0386	0.0249	0.4364	0.1704	0.2660	1.1425
7	4.04	-0.00	0.1942	0.2457	-0.0176	0.0458	0.0228	0.4455	0.1787	0.2668	1.2650
8	5.05	-0.00	0.2478	0.3082	-0.0141	0.0448	0.0237	0.4532	0.1795	0.2737	1.2436
9	6.10	-0.00	0.2979	0.3971	-0.0157	0.0440	0.0231	0.4644	0.1872	0.2772	1.3338
10	8.14	-0.00	0.4251	0.5056	-0.0154	0.0554	0.0221	0.4813	0.1895	0.2918	1.1893
11	10.18	-0.00	0.5739	0.6007	-0.0130	0.0550	0.0210	0.4907	0.2072	0.2835	1.0467
12	12.20	-0.00	0.7488	0.6695	-0.0132	0.0409	0.0212	0.4924	0.2167	0.2757	0.8940
13	15.29	-0.00	1.0786	0.7990	-0.0589	0.1858	0.0198	0.4894	0.2357	0.2537	0.7407
14	18.40	-0.00	1.4934	0.8822	-0.1599	0.4062	0.0183	0.4809	0.2534	0.2275	0.5908
15	21.51	0.01	2.0373	0.8792	-0.4599	0.9863	0.0164	0.4681	0.2758	0.1923	0.4315
16	24.64	0.05	2.8298	0.6160	-0.8096	1.3365	0.0164	0.4508	0.2901	0.1607	0.2177
17	27.81	0.14	3.8427	0.0808	-1.1153	0.8697	0.0179	0.4488	0.3105	0.1383	0.0210
18	31.04	0.25	4.6165	0.4807	-0.5073	-1.8727	0.0229	0.4333	0.3434	0.0899	0.1041
19	15.32	-0.00	1.0692	0.8654	-0.0746	0.2207	0.0222	0.4963	0.3375	0.1589	0.8094
20	5.09	-0.00	0.2395	0.3711	-0.0154	0.0440	0.0251	0.4630	0.2432	0.2198	1.5494
21	-0.01	0.00	-0.0070	0.0255	-0.0152	0.0311	0.0283	0.4396	0.1939	0.2457	-3.6538

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	192	1.20	2.3	0.0	BS+OF0	0.0	OFF	OFF	OFF	OFF	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-2.03	0.00	-0.1043	-0.0824	-0.0093	0.0136	0.0260	0.4227	0.1485	0.2741	0.7906
2	-1.00	0.00	-0.0545	-0.0107	-0.0080	0.0144	0.0243	0.4156	0.1433	0.2723	0.1961
3	0.00	0.00	-0.0108	0.0682	-0.0077	0.0135	0.0238	0.4137	0.1421	0.2711	-6.3336
4	1.03	0.00	0.0362	0.1505	-0.0044	0.0110	0.0232	0.4141	0.1426	0.2714	4.1509
5	2.05	0.00	0.0819	0.2306	-0.0057	0.0132	0.0223	0.4153	0.1544	0.2608	2.8159
6	3.04	0.00	0.1247	0.3067	-0.0071	0.0186	0.0216	0.4188	0.1595	0.2593	2.4607
7	4.11	-0.00	0.1774	0.3852	-0.0046	0.0140	0.0207	0.4233	0.1620	0.2613	2.1711
8	5.10	-0.00	0.2277	0.4605	-0.0031	0.0214	0.0213	0.4309	0.1677	0.2632	2.0221
9	6.09	-0.00	0.2823	0.5348	-0.0035	0.0205	0.0195	0.4417	0.1638	0.2779	1.8945
10	8.18	-0.00	0.4036	0.6802	-0.0006	0.0143	0.0187	0.4547	0.1816	0.2731	1.6852
11	10.19	-0.00	0.5583	0.7558	0.0028	0.0152	0.0192	0.4825	0.1800	0.2825	1.3536
12	12.24	-0.00	0.7485	0.8222	-0.0001	0.0193	0.0179	0.4649	0.1858	0.2791	1.0986
13	15.33	-0.00	1.0684	0.9412	-0.0166	0.0461	0.0156	0.4620	0.2053	0.2566	0.8648
14	18.42	-0.00	1.5244	1.0440	-0.0999	0.2568	0.0138	0.4532	0.2126	0.2406	0.6980
15	21.58	0.00	2.1455	1.1082	-0.1966	0.4231	0.0120	0.4393	0.2355	0.2038	0.5165
16	24.78	0.01	2.8970	1.1560	-0.2165	0.4086	0.0112	0.4209	0.2464	0.1745	0.3990
17	27.92	0.03	3.7670	0.8993	-0.4497	0.7533	0.0096	0.4076	0.2483	0.1593	0.2387
18	31.07	0.06	4.6952	0.5101	-0.4592	0.3449	0.0076	0.3937	0.2589	0.1347	0.1086
19	15.32	-0.00	1.0706	1.0101	-0.0341	0.1112	0.0187	0.4644	0.2492	0.2152	0.9435
20	5.08	0.00	0.2133	0.5176	-0.0054	0.0142	0.0218	0.4348	0.2261	0.2088	2.4266
21	0.00	0.00	-0.0189	0.0991	-0.0069	0.0138	0.0225	0.4183	0.1634	0.2549	-5.2577

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	193	1.30	2.3	0.0	BS#OFO	0.0	OFF	OFF	OFF	OFF	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-2.03	0.00	-0.0831	-0.1487	0.0005	-0.0080	0.0171	0.3837	0.1442	0.2395	1.7881
2	-2.03	0.00	-0.0854	-0.1396	-0.0024	-0.0175	0.0170	0.3924	0.1619	0.2305	1.6346
3	-0.99	0.00	-0.0373	-0.0503	-0.0004	-0.0197	0.0153	0.3905	0.1655	0.2250	1.3488
4	0.01	-0.00	0.0045	0.0395	0.0001	0.0003	0.0162	0.3871	0.1708	0.2163	4.6338
5	1.03	0.00	0.0542	0.1363	-0.0033	-0.0115	0.0142	0.3903	0.1654	0.2249	2.5178
6	2.06	0.00	0.1001	0.2319	-0.0075	-0.0076	0.0136	0.3931	0.1587	0.2345	2.3173
7	3.08	0.00	0.1484	0.3258	-0.0069	0.0076	0.0145	0.3947	0.1617	0.2330	2.1956
8	4.09	0.00	0.1975	0.4145	-0.0082	0.0068	0.0123	0.3967	0.1662	0.2305	2.0994
9	5.08	-0.00	0.2462	0.5042	-0.0002	0.0124	0.0133	0.4062	0.1672	0.2390	2.0482
10	6.12	-0.00	0.2990	0.6065	-0.0025	0.0214	0.0128	0.4152	0.1711	0.2441	2.0283
11	8.18	-0.00	0.4341	0.7337	-0.0039	0.0224	0.0112	0.4243	0.1799	0.2444	1.6902
12	10.20	-0.00	0.6007	0.8208	-0.0067	0.0326	0.0099	0.4319	0.1918	0.2401	1.3665
13	12.27	-0.00	0.8079	0.8981	-0.0075	0.0369	0.0072	0.4329	0.1956	0.2373	1.1116
14	15.36	-0.00	1.1914	1.0199	-0.0064	0.0540	0.0046	0.4369	0.2110	0.2259	0.8561
15	18.46	-0.01	1.7111	1.0793	-0.0013	0.0683	0.0031	0.4350	0.2217	0.2133	0.6307
16	21.67	-0.01	2.4214	1.0836	0.0120	0.0408	0.0015	0.4277	0.2377	0.1900	0.4475
17	24.86	0.00	3.2157	1.0466	-0.1108	0.2355	-0.0010	0.4241	0.2535	0.1706	0.3255
18	27.98	0.01	4.1057	0.7684	-0.3062	0.5418	-0.0026	0.4276	0.2612	0.1664	0.1872
19	31.18	0.03	5.1249	0.1408	-0.1663	-0.0187	-0.0043	0.4184	0.2732	0.1452	0.0275
20	15.38	-0.00	1.1930	1.0713	-0.0082	0.0624	0.0059	0.4386	0.2883	0.1503	0.8988
21	5.10	-0.00	0.2363	0.5674	-0.0068	0.0224	0.0064	0.4074	0.2484	0.1589	2.4014
22	0.01	0.00	-0.0030	0.0925	-0.0084	-0.0042	0.0067	0.3965	0.2245	0.1721	-30.4071

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	196	0.80	2.3	0.0	W4WDF0	0.0	OFF	OFF	OFF	OFF	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-2.02	0.00	-0.0899	-0.1694	-0.0030	-0.0131	-0.0055	0.2444	0.1009	0.1436	1.8839
2	-2.02	0.00	-0.0899	-0.1693	-0.0031	-0.0153	-0.0055	0.2463	0.1021	0.1442	1.8845
3	-2.01	0.00	-0.0879	-0.1698	-0.0043	-0.0157	-0.0055	0.2470	0.1130	0.1340	1.9311
4	-1.01	0.00	-0.0425	-0.0869	-0.0041	-0.0127	-0.0058	0.2443	0.1058	0.1386	2.0428
5	0.00	0.00	0.0024	0.0054	-0.0038	-0.0114	-0.0080	0.2412	0.1026	0.1387	2.2351
6	1.02	0.00	0.0441	0.1014	-0.0021	-0.0105	-0.0085	0.2419	0.1018	0.1401	2.3005
7	2.04	0.00	0.0945	0.1626	-0.0004	-0.0094	-0.0073	0.2434	0.1023	0.1411	1.9114
8	3.04	0.00	0.1373	0.2767	-0.0025	-0.0071	-0.0097	0.2459	0.1138	0.1321	2.0158
9	4.04	0.00	0.1839	0.3684	-0.0007	-0.0081	-0.0103	0.2490	0.1165	0.1324	2.0029
10	5.06	0.00	0.2330	0.4574	-0.0002	-0.0072	-0.0109	0.2542	0.1038	0.1504	1.9634
11	6.07	0.00	0.2806	0.5494	-0.0010	-0.0024	-0.0114	0.2574	0.1288	0.1286	1.9576
12	8.13	-0.00	0.4001	0.6960	0.0028	-0.0025	-0.0126	0.2678	0.1415	0.1262	1.7397
13	10.14	-0.00	0.5389	0.8184	0.0080	-0.0024	-0.0119	0.2710	0.1530	0.1180	1.5193
14	12.19	-0.00	0.6974	0.9486	0.0096	-0.0033	-0.0133	0.2697	0.1652	0.1045	1.3602
15	15.25	-0.00	0.9569	1.1588	0.0011	0.0239	-0.0115	0.2596	0.1750	0.0847	1.2110
16	18.31	-0.00	1.2621	1.3797	0.0191	-0.0021	-0.0139	0.2465	0.1946	0.0519	1.0932
17	21.35	-0.00	1.5991	1.6128	0.0363	-0.0303	-0.0112	0.2253	0.2134	0.0120	1.0086
18	24.46	-0.00	2.0281	1.8512	0.0620	-0.0806	-0.0090	0.1913	0.2289	-0.0377	0.9128
19	27.55	-0.00	2.4779	2.0301	0.1726	-0.3000	-0.0059	0.1492	0.2455	-0.0962	0.8193
20	30.61	-0.00	2.9643	2.1477	0.3550	-0.6659	-0.0040	0.0997	0.2317	-0.1320	0.7197
21	15.22	-0.00	0.9337	1.2436	-0.0041	0.0318	-0.0008	0.2581	0.2113	0.0468	1.3319
22	5.06	0.00	0.2139	0.5265	-0.0016	-0.0069	-0.0020	0.2465	0.1418	0.1047	2.4618
23	0.00	0.00	-0.0082	0.0603	-0.0014	-0.0149	-0.0009	0.2334	0.1111	0.1223	-7.3367

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RE10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	197	0.85	2.3	0.0	B4W0F0	0.0	OFF	OFF	OFF	OFF	UNKNOWN

POINT	ALPHA	BETA	CN	CLN	CY	CLN	CLL	CA	CAB	CAF	XCP
1	0.00	0.00	0.0020	0.0393	-0.0013	-0.0187	-0.0009	0.2334	0.1052	0.1281	19.2288
2	-2.02	0.00	-0.0911	-0.1426	-0.0006	-0.0200	-0.0001	0.2394	0.0917	0.1477	1.5643
3	-2.02	0.00	-0.0944	-0.1445	-0.0019	-0.0205	-0.0001	0.2385	0.1157	0.1229	1.5318
4	-1.03	0.00	-0.0458	-0.0633	-0.0016	-0.0175	-0.0004	0.2344	0.1089	0.1255	1.3839
6	2.02	0.00	0.0901	0.2067	-0.0004	-0.0130	-0.0019	0.2329	0.1165	0.1164	2.2944
7	2.02	0.00	0.0895	0.2053	0.0008	-0.0147	-0.0019	0.2334	0.1059	0.1276	2.2938
8	3.03	0.00	0.1343	0.2923	-0.0012	-0.0125	-0.0007	0.2359	0.1091	0.1268	2.1769
9	4.04	0.00	0.1832	0.3760	0.0006	-0.0093	-0.0030	0.2398	0.1127	0.1271	2.0521
10	5.06	0.00	0.2292	0.4723	-0.0002	-0.0066	-0.0019	0.2434	0.1200	0.1234	2.0604
11	6.06	0.00	0.2848	0.5544	-0.0008	-0.0041	-0.0025	0.2514	0.1235	0.1279	1.9478
12	8.13	-0.00	0.4031	0.7110	0.0053	-0.0034	-0.0036	0.2609	0.1384	0.1225	1.7638
13	10.16	-0.00	0.5418	0.8318	0.0078	-0.0060	-0.0048	0.2625	0.1507	0.1118	1.5353
14	12.19	-0.00	0.7035	0.9874	0.0071	0.0010	-0.0043	0.2616	0.1641	0.0975	1.3752
15	15.25	-0.00	0.9621	1.1786	-0.0082	0.0418	-0.0061	0.2526	0.1811	0.0715	1.2250
16	18.30	-0.00	1.2799	1.4050	0.0214	-0.0068	-0.0053	0.2410	0.1993	0.0417	1.0978
17	21.37	-0.00	1.6348	1.6504	0.0298	-0.0714	-0.0028	0.2203	0.2162	0.0041	1.0095
18	24.45	-0.00	2.0553	1.8932	0.0736	-0.1011	-0.0010	0.1858	0.2223	-0.0365	0.9211
19	27.59	-0.01	2.5525	2.1064	0.1566	-0.2455	0.0003	0.1448	0.2352	-0.0904	0.8252
20	30.64	-0.01	3.1120	2.3230	0.2493	-0.3506	0.0019	0.0976	0.2435	-0.1459	0.7465
21	15.22	-0.00	0.9465	1.2573	-0.0048	0.0310	0.0023	0.2583	0.2202	0.0381	1.3312
22	4.67	0.00	0.2084	0.5181	0.0008	-0.0079	0.0049	0.2506	0.1453	0.1053	2.4864
23	-0.01	0.00	-0.0128	0.0608	-0.0014	-0.0143	0.0078	0.2339	0.1015	0.1324	-4.7471

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	198	0.92	2.3	0.0	B4W0F0	0.0	OFF	OFF	OFF	OFF	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-2.03	0.00	-0.0955	-0.1501	-0.0030	-0.0216	0.0097	0.2378	0.1114	0.1264	1.5708
2	-1.02	0.00	-0.0453	-0.0725	-0.0015	-0.0185	0.0078	0.2331	0.1123	0.1208	1.6021
3	-0.01	0.00	0.0021	0.0166	-0.0024	-0.0141	0.0074	0.2312	0.1067	0.1246	8.0291
4	1.02	0.00	0.0515	0.1072	-0.0019	-0.0152	0.0068	0.2321	0.1106	0.1215	2.0809
5	2.04	0.00	0.0913	0.1956	-0.0026	-0.0089	0.0064	0.2345	0.1132	0.1212	2.1427
6	3.05	0.00	0.1403	0.2833	-0.0010	-0.0116	0.0057	0.2375	0.1179	0.1195	2.0198
7	4.05	0.00	0.1886	0.3666	-0.0005	-0.0108	0.0052	0.2412	0.1161	0.1251	1.9435
8	5.08	0.00	0.2359	0.4615	0.0012	-0.0077	0.0046	0.2466	0.1180	0.1287	1.9564
9	6.10	0.00	0.2889	0.5485	-0.0017	-0.0039	0.0056	0.2548	0.1288	0.1260	1.8987
10	8.14	-0.00	0.4141	0.6954	0.0030	-0.0016	0.0045	0.2690	0.1410	0.1280	1.6791
11	10.17	-0.00	0.5537	0.8236	0.0090	-0.0068	0.0032	0.2705	0.1560	0.1145	1.4873
12	12.21	-0.00	0.7209	0.9622	0.0084	-0.0041	0.0019	0.2720	0.1704	0.1016	1.3347
13	15.25	-0.00	0.9937	1.1882	0.0044	0.0140	0.0015	0.2632	0.1927	0.0706	1.1958
14	18.30	-0.00	1.3087	1.4184	0.0178	-0.0003	0.0023	0.2516	0.2080	0.0437	1.0838
15	21.43	-0.00	1.6971	1.6966	0.0196	0.0254	0.0046	0.2324	0.2190	0.0134	0.9997
16	24.54	-0.00	2.1881	2.0111	-0.0178	0.0530	0.0060	0.2066	0.2374	-0.0308	0.9191
17	27.67	-0.01	2.7803	2.4878	0.1121	-0.1241	0.0057	0.1688	0.2459	-0.0771	0.8948
18	30.86	-0.02	3.6067	3.3747	0.1749	-0.0379	0.0064	0.1370	0.2493	-0.1123	0.9357
19	30.85	-0.02	3.5818	3.3391	0.1666	-0.0119	0.0088	0.1338	0.2565	-0.1226	0.9322
20	15.25	-0.00	0.9637	1.2781	0.0030	0.0164	0.0128	0.2697	0.2324	0.0373	1.3263
21	5.08	0.00	0.2106	0.5331	-0.0013	-0.0019	0.0160	0.2529	0.1772	0.0757	2.5307
22	0.00	0.00	-0.0214	0.0709	-0.0026	-0.0136	0.0172	0.2350	0.1356	0.0994	-3.3108

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RE/10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	199	0.98	2.3	0.0	B4W0F0	0.0	OFF	OFF	OFF	OFF	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-2.03	0.00	-0.0898	-0.1776	-0.0017	-0.0169	0.0187	0.2610	0.1236	0.1373	1.9992
2	-1.02	0.00	-0.0411	-0.0924	-0.0014	-0.0180	0.0168	0.2530	0.1249	0.1281	2.2492
3	0.00	0.00	0.0065	0.0015	-0.0033	-0.0120	0.0165	0.2560	0.1274	0.1286	0.2397
4	1.03	0.00	0.0535	0.0916	-0.0028	-0.0111	0.0159	0.2546	0.1223	0.1322	1.7130
5	2.02	0.00	0.1019	0.1741	-0.0012	-0.0063	0.0153	0.2581	0.1121	0.1460	1.7085
6	3.06	0.00	0.1509	0.2663	-0.0040	-0.0045	0.0147	0.2642	0.1269	0.1373	1.7652
7	4.07	0.00	0.2005	0.3575	-0.0056	0.0014	0.0157	0.2695	0.1281	0.1413	1.7829
8	5.10	0.00	0.2516	0.4483	0.0003	0.0018	0.0152	0.2768	0.1387	0.1381	1.7813
9	6.09	0.00	0.3091	0.5302	-0.0012	0.0057	0.0145	0.2906	0.1441	0.1465	1.7153
10	8.14	-0.00	0.4292	0.6907	0.0087	-0.0016	0.0149	0.3040	0.1582	0.1458	1.6093
11	10.18	-0.00	0.5635	0.8336	0.0177	-0.0129	0.0119	0.3186	0.1695	0.1491	1.4288
12	12.18	-0.00	0.7036	0.9720	0.0150	-0.0053	0.0122	0.3150	0.1871	0.1280	1.3071
13	15.25	-0.00	1.0359	1.2270	0.0137	0.0076	0.0115	0.3157	0.2011	0.1146	1.1845
14	18.38	-0.00	1.3979	1.4961	-0.0018	0.0699	0.0108	0.3076	0.2290	0.0785	1.0703
15	21.48	-0.01	1.8720	1.6341	0.0491	-0.0235	0.0114	0.2877	0.2436	0.0440	0.9798
16	24.65	-0.01	2.5038	2.3256	0.0477	-0.0201	0.0096	0.2650	0.2577	0.0074	0.9288
17	27.80	-0.01	3.3237	3.0931	0.0876	-0.0245	0.0081	0.2387	0.2723	-0.0337	0.9306
18	31.05	-0.02	4.1508	3.8685	0.1569	-0.0062	0.0068	0.2140	0.2864	-0.0724	0.9320
19	15.28	-0.00	1.0177	1.2817	0.0168	0.0031	0.0160	0.3193	0.2433	0.0760	1.2595
20	5.09	0.00	0.2393	0.4978	-0.0041	0.0122	0.0198	0.2837	0.1986	0.0850	2.0802
21	0.00	0.00	0.0019	0.0196	-0.0011	-0.0076	0.0212	0.2548	0.1390	0.1159	10.6055

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	200	1.10	2.3	0.0	B4+0F0	0.0	OFF	OFF	OFF	OFF	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-2.02	0.00	-0.0956	-0.1696	-0.0045	-0.0012	0.0155	0.4267	0.1728	0.2538	1.7730
2	-2.02	0.00	-0.0917	-0.1722	-0.0065	0.0000	0.0169	0.4280	0.1790	0.2490	1.8777
3	-1.03	0.00	-0.0459	-0.0786	-0.0091	0.0171	0.0167	0.4261	0.1765	0.2496	1.7108
4	-0.01	-0.00	0.0071	0.0164	-0.0137	0.0337	0.0150	0.4265	0.1774	0.2491	2.3543
5	1.00	-0.00	0.0560	0.1216	-0.0093	0.0239	0.0143	0.4261	0.1822	0.2439	2.1729
6	2.03	-0.00	0.1023	0.2266	-0.0107	0.0345	0.0137	0.4293	0.1775	0.2518	2.2147
7	3.08	-0.00	0.1507	0.3396	-0.0063	0.0230	0.0116	0.4310	0.1847	0.2464	2.2544
8	4.07	-0.00	0.2000	0.4384	-0.0087	0.0384	0.0124	0.4413	0.1821	0.2591	2.1919
9	5.08	-0.00	0.2546	0.5447	-0.0053	0.0284	0.0117	0.4481	0.1940	0.2541	2.1394
10	6.12	-0.00	0.3134	0.6506	-0.0076	0.0405	0.0111	0.4622	0.1970	0.2652	2.0763
11	8.15	-0.00	0.4394	0.8383	0.0006	0.0268	0.0097	0.4745	0.2110	0.2635	1.9088
12	10.20	-0.00	0.5998	0.9972	0.0052	0.0278	0.0097	0.4827	0.2209	0.2618	1.6630
13	12.26	-0.00	0.7828	1.1503	0.0051	0.0305	0.0082	0.4840	0.2389	0.2451	1.4694
14	12.26	-0.00	0.7864	1.1422	0.0070	0.0242	0.0082	0.4840	0.2572	0.2268	1.4525
15	15.36	-0.00	1.1047	1.4511	0.0005	0.0536	0.0057	0.4829	0.2591	0.2238	1.3136
16	18.47	-0.01	1.5151	1.7911	0.0037	0.0774	0.0042	0.4752	0.2756	0.1996	1.1822
17	21.61	-0.01	2.0957	2.1521	0.0371	0.0309	0.0042	0.4577	0.2893	0.1685	1.0269
18	24.60	-0.01	2.8632	2.6104	0.0376	0.0344	0.0017	0.4409	0.2949	0.1460	0.9117
19	27.96	-0.01	3.7370	3.0329	0.0514	0.0544	-0.0007	0.4270	0.3102	0.1168	0.8116
20	31.18	-0.01	4.5645	3.3275	0.0209	0.1094	-0.0025	0.4169	0.3190	0.0980	0.7290
21	15.35	-0.00	1.0882	1.4797	0.0042	0.0430	0.0085	0.4847	0.3118	0.1729	1.3597
23	0.00	-0.00	-0.0032	0.0634	-0.0108	0.0230	0.0133	0.4289	0.2112	0.2177	-19.7511

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	201	1.20	2.3	0.0	B4W0F0	0.0	OFF	OFF	OFF	OFF	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-2.03	0.00	-0.0991	-0.1195	-0.0054	0.0072	0.0092	0.4346	0.1480	0.2866	1.2061
2	-1.03	0.00	-0.0499	-0.0194	-0.0051	0.0048	0.0049	0.4305	0.1510	0.2795	0.3883
3	0.03	0.00	0.0006	0.0947	-0.0056	0.0057	0.0083	0.4270	0.1533	0.2737	170.0089
4	0.03	0.00	0.0005	0.0982	-0.0056	0.0073	0.0070	0.4282	0.1552	0.2730	193.5221
5	1.02	0.00	0.0451	0.2083	-0.0052	0.0067	0.0077	0.4283	0.1552	0.2731	4.6209
6	2.07	-0.00	0.0930	0.3226	-0.0037	0.0096	0.0070	0.4289	0.1549	0.2741	3.4696
7	3.06	-0.00	0.1426	0.4277	-0.0042	0.0120	0.0050	0.4331	0.1562	0.2769	2.9989
8	4.08	-0.00	0.1922	0.5407	-0.0027	0.0101	0.0057	0.4392	0.1589	0.2804	2.8124
9	5.09	-0.00	0.2448	0.6500	-0.0022	0.0111	0.0050	0.4466	0.1641	0.2825	2.6551
10	6.13	-0.00	0.3054	0.7569	-0.0016	0.0137	0.0043	0.4572	0.1683	0.2889	2.4782
11	8.20	-0.00	0.4450	0.9657	0.0046	0.0087	0.0043	0.4692	0.1765	0.2927	2.1250
12	10.22	-0.00	0.6136	1.1015	0.0081	0.0027	0.0028	0.4753	0.1854	0.2899	1.7951
13	12.31	-0.00	0.8116	1.2917	0.0129	0.0037	0.0011	0.4791	0.1985	0.2806	1.5915
14	15.39	-0.00	1.1604	1.5881	0.0026	0.0020	0.0000	0.4813	0.2167	0.2646	1.3686
15	18.53	-0.01	1.6420	1.9397	0.0072	0.0524	-0.0021	0.4820	0.2323	0.2497	1.1813
16	21.71	-0.01	2.3286	2.3566	0.0308	0.0081	-0.0031	0.4741	0.2514	0.2227	1.0120
17	24.85	-0.01	3.1142	2.7130	0.0452	0.0142	-0.0065	0.4639	0.2655	0.1983	0.8712
18	28.05	-0.01	4.0201	2.8913	0.0691	-0.0094	-0.0074	0.4566	0.2734	0.1833	0.7192
19	31.25	-0.01	4.9367	2.9238	0.0232	0.0689	-0.0087	0.4366	0.2848	0.1518	0.5923
20	15.37	-0.00	1.1411	1.6381	0.0003	0.0419	0.0026	0.4828	0.2775	0.2053	1.4356
21	15.37	-0.00	1.1411	1.6291	0.0022	0.0190	0.0012	0.4819	0.2655	0.2164	1.4277
22	5.10	-0.00	0.2351	0.6883	-0.0023	0.0097	0.0035	0.4525	0.2228	0.2297	2.9282
23	0.01	0.00	-0.0151	0.1346	-0.0030	0.0018	0.0041	0.4320	0.1921	0.2399	-8.9299

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	202	1.30	2.3	0.0	B4W0F0	0.0	OFF	OFF	OFF	OFF	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-2.03	0.00	-0.0852	-0.1603	0.0013	-0.0171	0.0049	0.4147	0.1287	0.2860	1.8813
2	-0.99	0.00	-0.0376	-0.0428	-0.0022	-0.0107	0.0046	0.4101	0.1362	0.2739	1.1382
3	-0.00	0.00	0.0084	0.0787	-0.0018	-0.0095	0.0027	0.4093	0.1473	0.2619	9.4093
4	1.04	0.00	0.0572	0.2071	0.0015	-0.0044	0.0021	0.4114	0.1541	0.2572	3.6185
5	2.07	0.00	0.1059	0.3294	-0.0063	0.0057	0.0014	0.4123	0.1541	0.2582	3.1142
6	3.06	-0.00	0.1569	0.4517	0.0007	0.0117	0.0008	0.4159	0.1539	0.2621	2.8792
7	4.12	0.00	0.2072	0.5758	-0.0054	0.0032	-0.0001	0.4210	0.1562	0.2648	2.7799
8	5.12	-0.00	0.2630	0.6926	0.0018	0.0155	-0.0006	0.4303	0.1602	0.2701	2.6331
9	6.11	-0.00	0.3203	0.8061	-0.0078	0.0219	-0.0014	0.4393	0.1648	0.2745	2.5166
10	9.21	-0.00	0.4655	1.0151	0.0002	0.0192	-0.0015	0.4497	0.1750	0.2746	2.1805
11	10.23	-0.01	0.6393	1.1957	0.0141	0.0226	-0.0029	0.4571	0.1856	0.2715	1.8702
12	12.31	-0.01	0.8446	1.3953	0.0152	0.0276	-0.0033	0.4627	0.1961	0.2665	1.6519
13	15.40	-0.01	1.2269	1.7008	-0.0068	0.0748	-0.0060	0.4679	0.2101	0.2578	1.3862
14	18.54	-0.01	1.8005	2.0272	0.0107	0.0453	-0.0088	0.4723	0.2245	0.2479	1.1259
15	21.76	-0.01	2.5235	2.4220	0.0262	0.0473	-0.0109	0.4739	0.2421	0.2317	0.9598
16	24.97	-0.01	3.3675	2.6543	0.0297	0.0337	-0.0118	0.4698	0.2561	0.2137	0.7882
17	28.15	-0.01	4.2907	2.7028	0.0211	0.0741	-0.0147	0.4722	0.2656	0.2066	0.6299
18	31.32	-0.01	5.2780	2.4102	0.0266	0.0375	-0.0146	0.4630	0.2778	0.1853	0.4567
19	15.42	-0.01	1.2258	1.7616	-0.0077	0.0797	-0.0061	0.4706	0.2768	0.1938	1.4208
20	5.12	-0.00	0.2564	0.7293	0.0028	0.0142	-0.0047	0.4342	0.2407	0.1934	2.8443
21	0.01	0.00	0.0043	0.1041	0.0010	-0.0054	-0.0040	0.4150	0.2135	0.2015	24.1538

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	205	0.50	VARY	0.0	B4=0F0	0.0	OFF	OFF	OFF	OFF	UNKNOWN

POINT	ALPHA	BETA	CN	CLN	CY	CLN	CLL	CA	CAB	CAF	XCP	RX10-6
1	23.59	-0.00	2.0223	2.0445	0.0727	-0.0185	-0.0812	0.1358	0.2472	-0.1314	1.0110	0.631
2	22.58	-0.00	1.9150	1.8588	0.0781	-0.0533	-0.0803	0.0792	0.1899	-0.1108	0.9706	0.612
3	23.47	-0.00	2.1139	2.0181	0.0765	-0.0311	-0.0728	0.0463	0.2235	-0.1773	0.9547	0.606
4	23.46	-0.00	1.8167	1.7783	-0.0453	0.1566	-0.0556	0.0707	0.3966	-0.3259	0.9789	0.805
5	23.48	-0.00	1.8134	1.7742	-0.0194	0.1187	-0.0556	0.0705	0.2964	-0.2259	0.9784	0.808
6	23.51	-0.00	1.5957	1.4044	-0.0616	0.2557	-0.0186	0.1492	0.2955	-0.1463	0.8801	1.228
7	23.51	-0.00	1.5744	1.4021	-0.0400	0.2530	-0.0132	0.1479	0.2693	-0.1214	0.8906	1.237
8	23.56	-0.00	1.6431	1.5226	-0.0361	0.1512	0.0119	0.1517	0.2223	-0.0706	0.9267	1.634
9	23.56	-0.00	1.6518	1.5020	-0.0410	0.1580	0.0119	0.1488	0.2204	-0.0716	0.9093	1.637
10	23.49	-0.00	1.6512	1.5009	-0.0206	0.1015	0.0115	0.1451	0.2204	-0.0753	0.9090	1.633
11	23.58	-0.00	1.7287	1.6555	-0.0515	0.1325	0.0178	0.1664	0.2257	-0.0593	0.9577	2.387
12	23.49	-0.00	1.7199	1.6612	-0.0463	0.1552	0.0182	0.1693	0.2208	-0.0515	0.9659	2.385
13	23.59	-0.00	1.7662	1.6959	0.1060	-0.1920	0.0130	0.1779	0.2278	-0.0500	0.9602	3.189
14	23.48	0.00	1.7531	1.6854	0.0847	-0.1721	0.0148	0.1803	0.2295	-0.0493	0.9614	3.206
15	23.54	-0.00	1.7904	1.7253	0.0615	-0.0930	0.0153	0.1873	0.2246	-0.0373	0.9637	4.543
16	23.48	-0.00	1.7739	1.7188	0.0576	-0.0780	0.0141	0.1874	0.2280	-0.0407	0.9689	4.544
17	23.47	-0.00	1.7795	1.7175	0.0651	-0.1064	0.0127	0.1869	0.2188	-0.0319	0.9651	4.526

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	206	0.95	VARY	0.0	BANDFO	0.0	OFF	OFF	OFF	OFF	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP	RX10-6
1	12.46	-0.00	0.7501	1.0301	0.0003	0.0248	0.0089	0.2909	0.1986	0.0923	1.3733	5.298
2	11.90	-0.00	0.7017	0.9856	-0.0007	0.0251	0.0072	0.2961	0.2222	0.0739	1.4046	5.291
3	12.02	-0.00	0.7149	0.9940	-0.0014	0.0247	0.0048	0.2983	0.2152	0.0831	1.3904	5.055
4	12.02	-0.00	0.7146	0.9913	-0.0009	0.0248	0.0048	0.2965	0.2043	0.0922	1.3873	5.072
5	12.04	-0.00	0.7169	0.9904	-0.0010	0.0266	0.0022	0.2974	0.1984	0.0990	1.3815	5.259
6	11.97	-0.00	0.7133	0.9921	0.0004	0.0254	0.0031	0.2986	0.2054	0.0932	1.3909	4.528
7	11.97	-0.00	0.7095	0.9900	-0.0002	0.0270	0.0031	0.2986	0.2010	0.0976	1.3948	4.557
8	11.77	-0.00	0.6891	0.9831	0.0048	0.0204	0.0086	0.2971	0.2151	0.0820	1.4266	2.279
9	11.99	-0.00	0.7083	0.9970	0.0050	0.0186	0.0084	0.2941	0.1911	0.1030	1.4077	2.285
10	11.99	-0.00	0.7097	0.9935	0.0061	0.0169	0.0085	0.2927	0.1832	0.1095	1.3998	2.271
11	11.92	-0.00	0.6723	1.0165	0.0037	0.0261	0.0166	0.2833	0.1996	0.0837	1.5120	1.513
12	11.92	-0.00	0.6769	1.0089	0.0054	0.0235	0.0165	0.2795	0.2139	0.0656	1.4904	1.520

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	207	1.30	VARY	0.0	B4W0F0	0.0	OFF	OFF	OFF	OFF	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP	RX10-6
1	9.20	-0.00	0.5245	1.1011	0.0141	0.0190	0.0133	0.4641	0.2025	0.2616	2.0991	2.305
2	9.00	-0.00	0.5046	1.0931	-0.0016	0.0182	0.0147	0.4639	0.2150	0.2489	2.1662	2.309
3	9.07	-0.00	0.5162	1.1103	0.0004	0.0284	0.0131	0.4710	0.2339	0.2371	2.1509	3.111
4	8.97	-0.00	0.5080	1.1032	-0.0012	0.0281	0.0143	0.4700	0.2273	0.2427	2.1718	3.093
5	9.24	-0.01	0.5256	1.1535	0.0007	0.0373	0.0075	0.4712	0.2373	0.2339	2.1946	5.807
6	9.03	-0.00	0.5068	1.1380	-0.0063	0.0310	0.0076	0.4707	0.2383	0.2323	2.2454	5.808
7	9.02	-0.01	0.5072	1.1375	-0.0029	0.0312	0.0082	0.4698	0.2359	0.2339	2.2428	5.796

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	210	0.60	3.9	0.0	B4W0F0	0.0	OFF	OFF	OFF	OFF	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	30.51	0.00	2.6615	2.0592	0.4118	-0.8992	0.0183	-0.0971	0.2408	-0.3378	0.7737
2	30.02	0.00	2.5871	2.0371	0.4057	-0.8756	0.0184	-0.0876	0.2594	-0.3470	0.7874
3	30.02	0.00	2.5985	2.0457	0.3998	-0.8546	0.0132	-0.0887	0.2458	-0.3345	0.7873

ARNOLD ENGINEERING DEVELOPMENT CENTER (AEDC) PROPULSION WIND TUNNEL FACILITY (PWT) AERODYNAMIC WIND TUNNEL (4T)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	211	0.60	3.9	0.0	B4W0F0	0.0	OFF	OFF	OFF	OFF	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	30.27	-0.00	2.7714	2.2172	0.3440	-0.6699	0.0071	-0.0290	0.2473	-0.2764	0.8000
2	29.97	-0.00	2.7112	2.2030	0.2803	-0.5605	0.0051	-0.0233	0.2426	-0.2659	0.8126
3	29.95	-0.00	2.7005	2.1997	0.3009	-0.5970	0.0072	-0.0274	0.2574	-0.2848	0.8148

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	212	0.80	3.9	0.0	64W0F0	0.0	OFF	OFF	OFF	OFF	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	30.27	-0.01	3.0368	2.5864	0.2945	-0.4910	0.0043	0.0039	0.2181	-0.2142	0.8517
2	30.05	-0.01	2.9853	2.5520	0.2717	-0.4600	0.0069	0.0073	0.2576	-0.2503	0.8549
3	30.06	-0.01	2.9891	2.5517	0.2716	-0.4636	0.0065	0.0092	0.2579	-0.2487	0.8537

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	213	1.00	3.9	0.0	B4W0F0	0.0	OFF	OFF	OFF	OFF	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	30.41	-0.02	3.9724	3.9818	0.0564	0.0444	0.0013	0.0811	0.2874	-0.2063	1.0024
2	30.11	-0.02	4.0463	3.8652	0.0963	-0.0147	0.0047	0.2255	0.2967	-0.0712	0.9548
3	30.10	-0.02	4.0402	3.8555	0.1000	-0.0162	0.0047	0.2258	0.3062	-0.0804	0.9543
4	30.10	-0.02	4.0392	3.8837	0.0905	-0.0107	0.0047	0.2157	0.3070	-0.0913	0.9615

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	214	1.20	3.9	0.0	B4=0FG	0.0	OFF	OFF	OFF	OFF	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	30.37	-0.02	4.8000	3.1388	0.0660	-0.0056	0.0050	0.3881	0.3347	0.0535	0.6539
2	29.93	-0.02	4.6294	3.1935	0.0727	-0.0052	0.0064	0.3945	0.3276	0.0668	0.6898
3	29.94	-0.02	4.6596	3.1252	0.0657	-0.0013	0.0046	0.3979	0.3328	0.0651	0.6707

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	215	1.10	2.0	0.0	W=0F0	0.0	OFF	OFF	OFF	OFF	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	28.83	-0.00	3.9094	3.3118	-0.0499	0.1366	0.0135	0.2292	0.3306	-0.1014	0.8471
2	29.03	0.00	3.9442	3.3434	-0.0574	0.1304	0.0138	0.2260	0.3178	-0.0918	0.8477
3	29.04	-0.00	3.9611	3.3275	-0.0485	0.1353	0.0134	0.2273	0.3236	-0.0962	0.8401
4	30.06	0.00	4.1667	3.4975	-0.0164	-0.0110	0.0115	0.2172	0.3073	-0.0902	0.8394
5	30.08	0.01	4.2320	3.4083	-0.0409	0.0146	0.0106	0.2209	0.3259	-0.1050	0.8054

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	214	1.06	2.0	0.0	B4=0F0	0.0	OFF	OFF	OFF	OFF	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	30.24	-0.00	4.1368	3.7984	0.0022	0.0240	0.0124	0.0889	0.4041	-0.3152	0.9183
2	30.11	-0.01	4.0828	4.0020	-0.0105	0.1288	0.0104	0.1571	0.3875	-0.2304	0.9802
3	30.06	0.00	4.0722	3.6358	-0.0514	0.0640	0.0085	0.0732	0.3171	-0.2438	0.8928
4	30.05	0.00	4.0601	3.6286	-0.0489	0.0646	0.0086	0.0679	0.2908	-0.2229	0.8937

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	217	0.80	2.0	0.0	B4W0F0	0.0	OFF	OFF	OFF	OFF	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	29.68	-0.00	2.7667	2.2796	0.1467	-0.2196	0.0203	-0.1174	0.2844	-0.4018	0.8239
2	30.01	-0.00	2.8437	2.2886	0.0484	-0.0170	0.0178	-0.1163	0.2676	-0.3838	0.8048
3	30.01	-0.00	2.8523	2.2966	0.0323	0.0118	0.0179	-0.1150	0.2580	-0.3730	0.8052

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	218	0.60	2.0	0.0	H4=OF0	0.0	OFF	OFF	OFF	OFF	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	29.86	-0.00	2.5080	2.0915	-0.0404	0.1362	0.0205	-0.1805	0.2194	-0.3999	0.8339
2	29.97	-0.00	2.5413	2.0901	-0.0897	0.2409	0.0203	-0.1778	0.2811	-0.4590	0.8225
3	29.98	-0.00	2.5565	2.1049	-0.1050	0.2820	0.0176	-0.1734	0.2501	-0.4235	0.8234

ARNOLD ENGINEERING DEVELOPMENT CENTER (AEDC) PROPULSION WIND TUNNEL FACILITY (PWT) AERODYNAMIC WIND TUNNEL (4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	219	0.40	2.0	0.0	B4W0F0	0.0	OFF	OFF	OFF	OFF	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	29.95	0.00	2.4116	1.9066	0.3185	-0.7330	0.0153	-0.2772	0.2436	-0.5208	0.7906
2	29.95	0.00	2.4230	1.8980	0.3170	-0.7669	0.0116	-0.2833	0.2058	-0.4891	0.7833

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	220	0.20	2.0	0.0	B4=0F0	0.0	OFF	OFF	OFF	OFF	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	29.93	0.00	2.2269	1.7614	0.5730	-1.3853	0.0340	-0.6555	0.2958	-0.9514	0.7910
2	29.92	0.00	2.3717	1.8677	0.6055	-1.2418	0.0380	-0.7064	0.2731	-0.9795	0.7875

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
1	223	0.40	3.8	0.0	BAWOFO	0.0	OFF	OFF	OFF	OFF	UNKNOWN

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	0.00	0.00	0.0128	0.0368	-0.0092	0.0047	0.0108	0.2169	0.0984	0.1185	2.8665
2	0.00	0.00	0.0100	0.0357	-0.0078	0.0050	0.0108	0.2160	0.1048	0.1112	3.5536
3	1.02	0.00	0.0521	0.1787	-0.0102	0.0075	0.0103	0.2176	0.0812	0.1364	2.4679
4	1.02	0.00	0.0569	0.1238	-0.0087	0.0078	0.0121	0.2161	0.1091	0.1070	2.1772
5	2.04	0.00	0.0948	0.2243	-0.0099	0.0108	0.0119	0.2198	0.0920	0.1278	2.3658
6	3.04	0.00	0.1381	0.3172	-0.0093	0.0139	0.0131	0.2214	0.1051	0.1163	2.2961
7	4.06	0.00	0.1783	0.4195	-0.0102	0.0145	0.0144	0.2246	0.1111	0.1135	2.3525
8	5.07	0.00	0.2283	0.5147	-0.0098	0.0154	0.0158	0.2306	0.1134	0.1172	2.2539
9	6.06	0.00	0.2709	0.6052	-0.0093	0.0185	0.0152	0.2357	0.1185	0.1172	2.2341
10	8.10	-0.00	0.3778	0.7765	-0.0055	0.0232	0.0180	0.2468	0.1319	0.1150	2.0562
11	10.13	-0.00	0.5129	0.9045	-0.0041	0.0221	0.0187	0.2519	0.1505	0.1014	1.7634
12	12.16	-0.00	0.6587	1.0357	0.0028	0.0156	0.0155	0.2522	0.1672	0.0850	1.5723
13	15.21	-0.00	0.9064	1.2568	0.0294	-0.0265	0.0171	0.2489	0.1753	0.0736	1.3866
14	18.26	-0.00	1.1827	1.4754	0.0816	-0.1356	0.0160	0.2418	0.1994	0.0424	1.2475
15	21.32	0.00	1.5108	1.6279	0.2565	-0.5374	0.0184	0.2216	0.2255	-0.0040	1.0775
16	24.38	0.01	1.9301	1.6586	0.6980	-1.5148	0.0194	0.2078	0.2477	-0.0400	0.8594
17	27.44	-0.00	2.4940	1.3143	1.5023	-3.0519	0.0207	0.1919	0.2674	-0.0755	0.5278
18	30.52	-0.10	3.1346	0.8968	2.1726	-2.7427	0.0156	0.2259	0.3741	-0.1482	0.2861
19	15.21	-0.00	0.8990	1.2800	0.0264	-0.0336	0.0206	0.2505	0.1949	0.0556	1.4238
20	5.07	0.00	0.2138	0.5320	-0.0111	0.0126	0.0174	0.2283	0.1173	0.1110	2.4878
21	0.00	0.00	0.0047	0.0488	-0.0107	0.0022	0.0166	0.2167	0.0935	0.1232	10.4261

APPENDIX B
TEST 2

PARTIAL MISSILE TAIL EFFECTS DATA

TEST ART MACH REYN/FT PHI LONF L DEL1 DEL2 DEL3 DELA TRANSITION
2 5 0.59 0.3 0.0 83.0FO 0.0 OFF OFF OFF OFF FREE

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-1.67	0.0	-0.1712	0.1705	-0.2473	0.2067	-0.0040	0.5466	0.0261	0.5145	-1.0306
2	-0.66	0.0	-0.0483	0.0122	-0.0638	0.0134	-0.0012	0.5001	0.0780	0.4222	-3.0451
3	0.36	0.0	-0.0311	0.0242	-0.0264	0.0103	0.0010	0.5044	0.0868	0.4156	-8.8063
4	1.33	0.0	-0.0134	0.0537	-0.0304	0.0054	-0.0027	0.5237	0.1120	0.4117	-3.1114
5	2.35	0.0	0.0044	0.0988	-0.0494	0.0106	-0.0048	0.5303	0.1078	0.4225	6.1267
6	3.36	0.0	0.0114	0.1114	-0.0549	0.0197	-0.0057	0.5230	0.1141	0.4089	4.3934
7	4.36	0.0	0.0167	0.1209	-0.0630	0.0212	-0.0108	0.5205	0.1295	0.3910	4.8751
8	5.31	0.0	0.0231	0.1413	-0.0674	0.0224	-0.0081	0.5143	0.1432	0.3761	4.0481
9	6.36	0.0	0.0263	0.1501	-0.0729	0.0247	-0.0038	0.5106	0.1477	0.3633	3.5369
10	7.41	0.0	0.0317	0.1626	-0.0743	0.0246	0.0011	0.4965	0.1563	0.3421	3.0527
11	8.38	0.0	0.0334	0.1633	-0.0774	0.0235	0.0035	0.4910	0.1590	0.3320	3.0866
12	9.38	0.0	0.0369	0.1716	-0.0780	0.0192	-0.0048	0.5016	0.1819	0.3197	2.9190
13	10.38	0.0	0.0404	0.1808	-0.0788	0.0214	0.0042	0.4937	0.1818	0.3120	2.9560
14	11.38	0.0	0.0421	0.1860	-0.0791	0.0234	-0.0027	0.4979	0.1753	0.3226	1.6485
15	12.34	0.0	0.0455	0.1922	-0.0811	0.0248	-0.0047	0.5002	0.1767	0.3234	1.4824
16	13.37	0.0	0.0479	0.1954	-0.0816	0.0170	0.0034	0.4966	0.1851	0.3095	1.1436
17	14.42	0.0	0.0503	0.1988	-0.0821	0.0277	-0.0064	0.4813	0.1930	0.2869	0.9794
18	15.39	0.0	0.0525	0.2005	-0.0830	0.0248	0.0008	0.4822	0.1921	0.2901	0.7837
19	16.38	0.0	0.0539	0.2034	-0.0840	0.0218	-0.0032	0.4863	0.1949	0.2849	0.6852
20	17.44	0.0	0.0561	0.2077	-0.0850	0.0248	-0.0008	0.4748	0.2072	0.2676	0.6881
21	18.42	0.0	0.0580	0.2114	-0.0857	0.0252	-0.0002	0.4566	0.2096	0.2469	0.6617
22	19.43	0.0	0.0593	0.2142	-0.0868	0.0233	0.0025	0.4439	0.2111	0.2328	0.5095

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
PANTI - MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	REYNOLDS	PHI	ZCAP	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2	7	0.65	0.0	0.0	-3.0000	0.0	OFF	OFF	OFF	OFF	FREE

POINT	ALPHA	BETA	CN	CLN	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-1.67	0.0	-0.1464	-0.1533	-0.1203	0.0086	-0.0123	0.4238	0.1351	0.2888	3.6197
2	-0.69	0.0	-0.0871	0.0931	-0.1036	0.0838	-0.0059	0.4249	0.1429	0.2819	-2.1390
3	0.27	0.0	-0.0280	0.0311	-0.1269	0.0571	-0.0088	0.4280	0.1266	0.3034	-8.6481
4	1.33	0.0	0.0542	0.0736	-0.1361	0.0746	-0.0045	0.4324	0.1098	0.3226	4.5959
5	2.38	0.0	0.1364	0.1411	-0.1257	0.0581	-0.0077	0.4326	0.1169	0.3178	3.3008
6	3.32	0.0	0.1760	0.1962	-0.1380	0.0846	-0.0066	0.4341	0.1264	0.3077	2.1214
7	4.35	0.0	0.2561	0.2619	-0.1317	0.0857	-0.0119	0.4404	0.1331	0.3072	1.6724
8	5.36	0.0	0.3354	0.3135	-0.1203	0.0512	-0.0151	0.4359	0.1418	0.2941	1.7707
9	6.34	0.0	0.3133	0.3355	-0.1228	0.0385	-0.0154	0.4388	0.1423	0.2961	2.2203
10	7.40	0.0	0.3957	0.3964	-0.1187	0.0357	-0.0087	0.4198	0.1485	0.2713	2.0371
11	8.40	0.0	0.4624	0.4593	-0.1178	0.0363	-0.0128	0.4222	0.1633	0.2589	2.0946
12	9.38	0.0	0.5324	0.5285	-0.1153	0.0295	-0.0152	0.4225	0.1747	0.2477	2.1308
13	10.36	0.0	0.5833	0.5806	-0.1106	0.0206	-0.0067	0.4211	0.1786	0.2424	1.8437
14	11.42	0.0	0.6417	0.6384	-0.1115	0.0345	-0.0047	0.4169	0.1794	0.2371	1.7882
15	12.48	0.0	0.6974	0.6908	-0.1097	0.0292	-0.0055	0.4183	0.1838	0.2358	1.7477
16	13.46	0.0	0.7524	0.7478	-0.1084	0.0278	-0.0169	0.4147	0.1905	0.2262	1.3673
17	14.42	0.0	0.8084	0.8044	-0.1124	0.0277	-0.0173	0.4119	0.1965	0.2150	1.0921
18	15.44	0.0	0.8614	0.8635	-0.1062	0.0254	-0.0149	0.4003	0.2094	0.1909	0.9007
19	16.41	0.0	0.9264	0.9218	-0.0958	0.0230	-0.0061	0.4004	0.2141	0.1878	0.7645
20	17.47	0.0	0.9944	0.9895	-0.1062	0.0263	-0.0134	0.3972	0.2227	0.1745	0.6226
21	18.43	0.0	1.0536	1.0478	-0.0998	0.0255	-0.0082	0.3902	0.2256	0.1645	0.6966
22	19.36	0.0	1.1136	1.1061	-0.1067	0.0305	-0.0160	0.3812	0.2285	0.1527	0.3947

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)

PAGE 1 OF 1
SHEET 1 OF 1

MANTIS MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	MACH	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2	4	0.59	0.7	0.0	B3B0F0	0.0	OFF	OFF	OFF	OFF	FREE

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-1.47	0.0	-0.0759	-0.0131	-0.0005	-0.0045	-0.0145	0.3472	0.1263	0.2209	0.4226
2	-0.46	0.0	-0.0612	0.0574	-0.0015	-0.0240	-0.0132	0.3484	0.1523	0.1946	-1.3916
3	0.35	0.0	-0.0152	0.0127	-0.0008	-0.0175	-0.0131	0.3471	0.1095	0.2376	7.0291
4	1.35	0.0	0.0500	0.2155	-0.0079	0.0051	-0.0146	0.3509	0.1154	0.2358	3.5926
5	2.35	0.0	0.1025	0.1825	-0.0085	-0.0181	-0.0121	0.3553	0.1191	0.2362	3.8265
6	3.35	0.0	0.1445	0.1780	-0.0527	0.0017	-0.0107	0.3543	0.1292	0.2251	2.2302
7	4.35	0.0	0.2131	0.2687	-0.0238	-0.0015	-0.0118	0.3623	0.1410	0.2213	2.1811
8	5.36	0.0	0.2240	0.2350	-0.0065	-0.0109	-0.0184	0.3583	0.1522	0.2061	2.7750
9	6.36	0.0	0.2527	0.2983	-0.0053	-0.0070	-0.0125	0.3635	0.1588	0.2047	2.3702
10	7.36	0.0	0.3054	0.3004	-0.0005	-0.0136	-0.0143	0.3744	0.1721	0.2023	2.0656
11	8.41	0.0	0.3681	0.3927	-0.0093	0.0002	-0.0133	0.3768	0.1751	0.2017	2.4417
12	9.46	0.0	0.4256	0.4713	-0.0501	0.0047	-0.0156	0.3812	0.1925	0.1886	2.0870
13	10.46	0.0	0.5103	0.5633	-0.0377	-0.0157	-0.0152	0.3700	0.1771	0.1929	2.0457
14	11.45	0.0	0.5944	0.6514	-0.0355	-0.0097	-0.0194	0.3714	0.1719	0.1995	1.8195
15	12.45	0.0	0.6825	0.6880	-0.0361	-0.0149	-0.0149	0.3561	0.1671	0.1891	1.9401
16	13.45	0.0	0.7823	0.8135	-0.0413	-0.0137	-0.0142	0.3620	0.1823	0.1797	2.0571
17	14.46	0.0	0.8734	0.9571	-0.0378	-0.0125	-0.0156	0.3560	0.2018	0.1542	1.9934
18	15.46	0.0	0.9711	1.0395	-0.0384	-0.0134	-0.0173	0.3574	0.1948	0.1630	1.8488
19	16.45	0.0	1.0716	1.0731	-0.0384	-0.0143	-0.0184	0.3549	0.1681	0.2048	1.6027
20	17.49	0.0	1.0877	1.0834	-0.0371	-0.0076	-0.0198	0.3503	0.1966	0.1537	1.2770
21	18.55	0.0	1.2252	1.1514	-0.0257	-0.0011	-0.0206	0.3512	0.1963	0.1549	1.1021
22	19.53	0.0	1.4143	1.1973	0.0005	-0.0377	-0.0190	0.3397	0.2341	0.1057	0.8463

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)

PAGE 1 OF 1
SHEET 1 OF 1

MANTI- MISSILE TAIL EFFECTS DATA

POINT	ALPHA	PHIA	CN	CLN	CY	CLN	CLL	CA	CAB	CAF	ACP
1	-1.04	0.0	-0.0231	-0.0207	-0.0042	-0.0011	-0.0182	0.3152	0.1276	0.1874	1.1781
2	-0.04	0.0	-0.0134	0.0020	-0.0179	0.0000	-0.0154	0.3230	0.1247	0.1983	-1.1017
3	0.38	0.0	0.0206	0.0030	-0.0365	-0.0091	-0.0173	0.3164	0.1221	0.1943	1.0748
4	1.33	0.0	0.0965	0.1593	-0.0437	-0.0120	-0.0179	0.3146	0.1252	0.1933	1.6901
5	2.33	0.0	0.1621	0.2618	-0.0410	-0.0224	-0.0196	0.3219	0.1339	0.1880	2.2968
6	3.46	0.0	0.2344	0.3687	-0.0453	0.0172	-0.0184	0.3237	0.1359	0.1868	2.4394
7	4.35	0.0	0.2921	0.4564	-0.0484	0.0150	-0.0191	0.3241	0.1424	0.1817	2.5041
8	5.48	0.0	0.3687	0.5761	-0.0513	0.0033	-0.0194	0.3251	0.1722	0.1509	2.5381
9	6.39	0.0	0.4316	0.6742	-0.0542	0.0056	-0.0197	0.3271	0.1503	0.1768	2.1855
10	7.40	0.0	0.4994	0.7711	-0.0541	0.0078	-0.0193	0.3364	0.1594	0.1796	2.1457
11	8.46	0.0	0.5716	0.8842	-0.0524	0.0115	-0.0209	0.3425	0.1697	0.1728	2.1116
12	9.45	0.0	0.6478	0.9911	-0.0568	-0.0141	-0.0205	0.3404	0.1785	0.1624	1.9213
13	10.44	0.0	0.7236	1.1078	-0.0472	-0.0241	-0.0175	0.3557	0.1716	0.1843	1.9336
14	11.48	0.0	0.8104	1.2417	-0.0583	0.0002	-0.0243	0.3542	0.1675	0.1867	1.7904
15	12.51	0.0	0.8951	1.3729	-0.0604	-0.0163	-0.0183	0.3595	0.1916	0.1679	1.5953
16	13.49	0.0	0.9781	1.5004	-0.0663	-0.0260	-0.0234	0.3540	0.2032	0.1508	1.4711
17	14.56	0.0	1.0633	1.6384	-0.0682	-0.0314	-0.0206	0.3648	0.2048	0.1602	1.5038
18	15.53	0.0	1.1387	1.7586	-0.0701	-0.0349	-0.0199	0.3522	0.2162	0.1361	1.3885
19	16.50	0.0	1.2167	1.8972	-0.0687	-0.0539	-0.0211	0.3616	0.2345	0.1269	1.7178
20	17.43	0.0	1.2902	1.9734	-0.0806	-0.0460	-0.0233	0.3385	0.2442	0.0923	1.7743
21	18.58	0.0	1.3761	2.1119	-0.0834	-0.0781	-0.0238	0.3371	0.2378	0.0993	1.6575
22	19.57	0.0	1.4592	2.2392	-0.0814	-0.0945	-0.0216	0.3359	0.2510	0.0849	1.5784

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH NUMBER	PHI	CONF	L	DEL1	DEL2	DEL3	DELA	TRANSITION
2	10	0.59 1.3	0.0	33.000	0.0	OFF	OFF	OFF	OFF	FREE

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-1.98	0.0	-1.0776	-0.0765	-0.0382	0.0266	-0.0197	0.3003	0.1124	0.1879	1.0074
2	-0.00	0.0	-0.0384	0.0121	-0.0437	0.0167	-0.0216	0.2916	0.1276	0.1640	-0.3911
3	0.33	0.0	0.0249	0.0016	-0.0333	0.0075	-0.0212	0.2925	0.1174	0.1752	10.7215
4	1.34	0.0	0.0949	0.1424	-0.0366	0.0138	-0.0215	0.2976	0.1306	0.1670	3.2709
5	2.40	0.0	0.1863	0.2163	-0.0324	0.0143	-0.0217	0.3000	0.1376	0.1624	3.0288
6	3.39	0.0	0.2844	0.2760	-0.0337	0.0246	-0.0218	0.3055	0.1473	0.1582	2.8597
7	4.37	0.0	0.3824	0.3350	-0.0360	0.0234	-0.0234	0.3068	0.1571	0.1489	2.7458
8	5.39	0.0	0.4816	0.3917	-0.0362	0.0241	-0.0218	0.3129	0.1561	0.1569	2.5320
9	6.42	0.0	0.5787	0.4367	-0.0428	0.0178	-0.0218	0.3136	0.1564	0.1632	2.2884
10	7.42	0.0	0.6729	0.4952	-0.0449	0.0199	-0.0218	0.3243	0.1593	0.1630	2.2254
11	8.45	0.0	0.7686	0.5553	-0.0492	0.0213	-0.0232	0.3262	0.1648	0.1613	2.1396
12	9.46	0.0	0.8643	0.6207	-0.0301	0.0241	-0.0240	0.3341	0.1727	0.1614	1.9411
13	10.48	0.0	0.9615	0.6966	-0.0258	0.0208	-0.0238	0.3343	0.1856	0.1504	1.8452
14	11.47	0.0	1.0577	1.0170	-0.0286	0.0182	-0.0232	0.3409	0.1914	0.1496	1.8518
15	12.52	0.0	1.1544	1.0858	-0.0251	0.0169	-0.0221	0.3363	0.1950	0.1413	1.7099
16	13.51	0.0	1.2508	1.1643	-0.0227	0.0141	-0.0228	0.3377	0.2017	0.1360	1.5205
17	14.56	0.0	1.3481	1.2387	-0.0218	0.0156	-0.0253	0.3436	0.2072	0.1364	1.5008
18	15.54	0.0	1.4430	1.3061	-0.0185	0.0092	-0.0268	0.3400	0.2108	0.1292	1.4581
19	16.58	0.0	1.5396	1.3836	-0.0145	0.0160	-0.0255	0.3399	0.2186	0.1213	1.3561
20	17.63	0.0	1.6356	1.4582	-0.0077	-0.0033	-0.0296	0.3345	0.2315	0.1030	1.3399
21	18.68	0.0	1.7314	1.5414	-0.0135	-0.0036	-0.0275	0.3266	0.2416	0.0830	1.4756
22	19.65	0.0	1.8270	1.6557	0.0505	-0.1423	-0.0282	0.3187	0.2492	0.0695	1.4170

ARNOLD ENGINEERING DEVELOPMENT CENTER/DOT | PROPULSION WIND TUNNEL FACILITY(PWT) | AERODYNAMIC WIND TUNNEL(4T)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	RUN	MACH	REN-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2	11	0.59	1.8	0.0	M3.0P6	0.0	OFF	OFF	OFF	OFF	FREE

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-1.67	0.0	-0.036	-0.127	-0.0384	0.0437	-0.0332	0.2700	0.1355	0.1405	2.3502
2	-0.47	0.0	-0.119	-0.131	-0.1184	0.0347	-0.0281	0.2723	0.1261	0.1462	1.1930
3	0.52	0.0	0.038	0.111	-0.0341	0.0257	-0.0253	0.2722	0.1232	0.1490	2.3381
4	1.38	0.0	0.137	0.178	-0.1309	0.0307	-0.0314	0.2761	0.1377	0.1384	1.7558
5	2.38	0.0	0.122	0.282	-0.0341	0.0488	-0.0309	0.2814	0.1439	0.1375	2.3150
6	3.41	0.0	0.194	0.347	-0.1184	0.0480	-0.0335	0.2857	0.1499	0.1353	2.5190
7	4.48	0.0	0.265	0.434	-0.1125	0.0487	-0.0346	0.2893	0.1523	0.1371	2.3535
8	5.40	0.0	0.298	0.509	-0.1301	0.0457	-0.0319	0.2914	0.1530	0.1384	2.3055
9	6.43	0.0	0.418	0.578	-0.1292	0.0396	-0.0298	0.2985	0.1584	0.1401	2.1624
10	7.47	0.0	0.480	0.647	-0.1277	0.0444	-0.0299	0.3099	0.1672	0.1427	2.1976
11	8.51	0.0	0.538	0.727	-0.1262	0.0502	-0.0293	0.3185	0.1775	0.1418	2.0249
12	9.52	0.0	0.601	0.813	-0.1205	0.0437	-0.0325	0.3132	0.1794	0.1339	1.8753
13	10.51	0.0	0.659	0.882	-0.1262	0.0367	-0.0306	0.3160	0.1880	0.1287	1.7455
14	11.52	0.0	0.720	1.000	-0.1262	0.0453	-0.0341	0.3235	0.1909	0.1325	1.7379
15	12.58	0.0	0.776	1.127	-0.0264	0.0414	-0.0330	0.3272	0.1987	0.1285	1.5594
16	13.57	0.0	0.830	1.183	-0.0205	0.0339	-0.0314	0.3242	0.2011	0.1231	1.4871
17	14.62	0.0	0.887	1.257	-0.1178	0.0263	-0.0320	0.3228	0.2030	0.1137	1.4294
18	15.66	0.0	0.950	1.328	-0.1175	0.0243	-0.0335	0.3192	0.2141	0.1051	1.3757
19	16.68	0.0	1.006	1.404	-0.0319	0.0343	-0.0348	0.3197	0.2239	0.0958	1.3426
20	17.70	0.0	1.059	1.479	-0.1178	0.0313	-0.0330	0.3196	0.2323	0.0873	1.2917
21	18.72	0.0	1.077	1.554	-0.1002	-0.0226	-0.0342	0.3136	0.2334	0.0799	1.2395
22	19.77	0.0	1.090	1.606	0.0198	-0.0430	-0.0332	0.3092	0.2408	0.0684	1.1511

MANTI - MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	WIDTH	PHI	CONE	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2	12	0.6V	2.6	0.0	H3=90	0.0	OFF	OFF	OFF	OFF	FREE

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	ACP
1	-1.76	0.00	-0.2[illegible]	-0.[illegible]	-0.[illegible]	0.[illegible]	-0.0248	0.2513	0.1351	0.1166	2.5454
2	-0.69	0.00	-0.[illegible]	-0.0[illegible]	-0.0224	0.0331	-0.0239	0.2500	0.1273	0.1226	2.3838
3	0.35	0.00	0.1[illegible]	0.[illegible]	-0.0207	0.0318	-0.0248	0.2523	0.1264	0.1259	1.4083
4	1.38	0.00	0.[illegible]	-0.1589	-0.0216	0.0324	-0.0248	0.2544	0.1430	0.1119	1.7163
5	2.41	0.00	0.1352	0.2748	-0.0239	0.0340	-0.0252	0.2585	0.1542	0.1043	2.0308
6	3.44	0.00	0.1727	0.3[illegible]	-0.0[illegible]	0.0336	-0.0243	0.2609	0.1591	0.1018	2.2423
7	4.48	0.00	0.2[illegible]	0.[illegible]	-0.0206	0.0350	-0.0233	0.2648	0.1622	0.1026	2.2407
8	5.47	0.00	0.2[illegible]	0.5094	-0.0[illegible]	0.0340	-0.0251	0.2745	0.1650	0.1095	2.3437
9	6.51	0.00	0.2315	0.7367	-0.0191	0.0379	-0.0235	0.2803	0.1687	0.1116	2.2373
10	7.53	0.00	0.2[illegible]	0.[illegible]	-0.0[illegible]	0.0374	-0.0247	0.2872	0.1740	0.1132	2.1900
11	8.00	0.00	0.2452	0.[illegible]	-0.0145	0.0[illegible]	-0.0243	0.2924	0.1790	0.1134	1.9956
12	9.63	0.00	0.2[illegible]	0.[illegible]	-0.0192	0.0[illegible]	-0.0249	0.2955	0.1835	0.1120	1.9510
13	10.63	0.00	0.2[illegible]	1.[illegible]	-0.[illegible]	0.[illegible]	-0.0257	0.3023	0.1914	0.1109	1.7603
14	11.66	0.00	0.[illegible]	1.[illegible]	-0.0[illegible]	0.[illegible]	-0.0256	0.3022	0.1952	0.1070	1.6508
15	12.72	0.00	0.[illegible]	1.[illegible]	-0.0153	0.[illegible]	-0.0253	0.3033	0.2027	0.1006	1.5587
16	13.74	0.00	0.[illegible]	1.[illegible]	-0.0134	0.0[illegible]	-0.0253	0.3031	0.2058	0.0964	1.5035
17	14.75	0.00	0.5[illegible]	1.[illegible]	-0.[illegible]	0.[illegible]	-0.0269	0.3055	0.2174	0.0881	1.4431
18	15.83	0.00	1.[illegible]	1.[illegible]	-0.[illegible]	0.[illegible]	-0.0250	0.3045	0.2235	0.0809	1.3796
19	16.9[illegible]	0.00	1.[illegible]	1.[illegible]	-0.[illegible]	0.[illegible]	-0.027[illegible]	0.3065	0.2289	0.0757	1.3621
20	17.90	0.00	1.[illegible]	1.[illegible]	0.0[illegible]	0.0[illegible]	-0.0250	0.3005	0.2353	0.0653	1.2922
21	18.92	0.00	1.[illegible]	1.[illegible]	0.[illegible]	0.[illegible]	-0.0248	0.2968	0.2418	0.0522	1.2006
22	20.03	0.00	1.[illegible]	1.7005	0.0180	-0.0390	-0.0254	0.2876	0.2440	0.0436	1.1821

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) --- PROPULSION WIND TUNNEL FACILITY(PWT) --- AERODYNAMIC WIND TUNNEL(4T)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST PART MACH REYNO/M PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION
2 14 0.59 3.5 0.0 63.0F0 0.0 OFF OFF OFF OFF FREE

POINT	ALPHA	BETA	CA	CLN	CY	CLN	CLL	CA	CAB	CAF	ACP
1	-1.76	0.0	-0.1061	-1.1256	-0.0187	0.0648	0.0003	0.2400	0.1435	0.0965	2.0541
2	-0.88	0.0	-0.0729	-0.0101	-0.0144	0.0643	-0.0002	0.2378	0.1314	0.1064	0.4966
3	0.39	0.0	0.0206	0.0773	-0.0173	0.0345	-0.0004	0.2396	0.1249	0.1048	2.9404
4	1.39	0.0	0.0755	0.1761	-0.0181	0.0503	0.0005	0.2426	0.1456	0.0970	2.2867
5	2.45	0.0	0.1174	0.2479	-0.0173	0.0515	0.0007	0.2457	0.1546	0.0911	2.5257
6	3.42	0.0	0.1564	0.3063	-0.0194	0.0508	-0.0003	0.2507	0.1598	0.0908	2.5959
7	4.50	0.0	0.2047	0.3784	-0.0195	0.0479	0.0000	0.2551	0.1639	0.0912	2.5224
8	5.53	0.0	0.2513	0.4478	-0.0178	0.0404	-0.0010	0.2595	0.1669	0.0926	2.4573
9	6.58	0.0	0.3146	0.5185	-0.0184	0.0528	-0.0009	0.2688	0.1735	0.0953	2.2956
10	7.62	0.0	0.3652	0.5821	-0.0169	0.0506	-0.0006	0.2765	0.1778	0.0987	2.2503
11	8.63	0.0	0.4311	0.6616	-0.0167	0.0639	-0.0006	0.2806	0.1802	0.1003	2.0452
12	9.68	0.0	0.5013	0.7428	-0.0166	0.0560	0.0001	0.2865	0.1856	0.0989	1.9205
13	10.76	0.0	0.5846	0.8367	-0.0181	0.0585	-0.0021	0.2872	0.1915	0.0958	1.7706
14	11.77	0.0	0.6527	0.9108	-0.0196	0.0652	-0.0004	0.2915	0.1966	0.0948	1.6727
15	12.85	0.0	0.7459	1.0098	-0.0175	0.0678	-0.0007	0.2932	0.2017	0.0915	1.5971
16	13.98	0.0	0.8376	1.0965	-0.0150	0.0744	-0.0016	0.2947	0.2109	0.0838	1.5162
17	14.91	0.0	0.9282	1.1838	-0.0148	0.0830	-0.0010	0.2934	0.2170	0.0764	1.4714
18	15.96	0.0	1.0218	1.2687	0.0164	0.0746	-0.0004	0.2927	0.2240	0.0688	1.4100
19	17.04	0.0	1.1226	1.3637	-0.0117	0.0720	-0.0015	0.2894	0.2308	0.0587	1.3491
20	18.09	0.0	1.2256	1.4497	-0.0062	0.0791	-0.0005	0.2856	0.2374	0.0483	1.3054
21	19.15	0.0	1.3346	1.5618	-0.0041	0.0718	0.0003	0.2791	0.2396	0.0395	1.2403
22	20.28	0.0	1.4734	1.7335	0.0209	-0.0075	-0.0000	0.2722	0.2460	0.0262	1.1762

MANTIS MISSILE TAIL EFFECTS DATA

TEST PART. CALM. SIZE=0. FM1 CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION
2 15 .59 4.3 .60 =3.0E+0 0.0 OFF OFF OFF OFF FREE

POINT	ALPHA	BETA	CA	CLN	CY	CLN	CLL	CA	CAW	CAF	ACP
1	-1.71	0.0	-0.0053	-0.0117	-0.0007	0.0338	-0.0015	0.2366	0.1431	0.0813	2.3393
2	-0.87	0.0	-0.0134	-0.0138	-0.0003	0.0325	-0.0018	0.2320	0.1352	0.0948	0.7560
3	0.38	0.0	0.0152	0.0037	-0.0008	0.0361	-0.0019	0.2336	0.1356	0.0992	1.7867
4	1.41	0.0	0.0374	0.0178	-0.0013	0.0379	-0.0015	0.2345	0.1405	0.0950	2.2413
5	2.48	0.0	0.0621	0.0299	-0.0019	0.0396	-0.0016	0.2402	0.1506	0.0818	2.4935
6	3.46	0.0	0.0819	0.0385	-0.0019	0.0406	-0.0023	0.2443	0.1631	0.0812	2.5385
7	4.53	0.0	0.1026	0.0476	-0.0019	0.0417	-0.0024	0.2493	0.1661	0.0832	2.5735
8	5.55	0.0	0.1209	0.0551	-0.0020	0.0421	-0.0019	0.2544	0.1700	0.0844	2.6877
9	6.61	0.0	0.1411	0.0641	-0.0021	0.0434	-0.0019	0.2655	0.1742	0.0914	2.3678
10	7.66	0.0	0.1599	0.0712	-0.0025	0.0437	-0.0025	0.2713	0.1799	0.0913	2.1868
11	8.74	0.0	0.1803	0.0788	-0.0027	0.0442	-0.0017	0.2767	0.1841	0.0925	2.0963
12	9.78	0.0	0.1981	0.0859	-0.0027	0.0457	-0.0031	0.2769	0.1772	0.0917	1.9130
13	11.03	0.0	0.2205	0.0951	-0.0031	0.0473	-0.0032	0.2825	0.1933	0.0852	1.7862
14	11.89	0.0	0.2371	0.1033	-0.0028	0.0481	-0.0023	0.2852	0.1986	0.0868	1.6733
15	12.98	0.0	0.2587	0.1111	-0.0030	0.0487	-0.0023	0.2837	0.2046	0.0791	1.6006
16	14.02	0.0	0.2789	0.1202	-0.0030	0.0497	-0.0016	0.2860	0.2105	0.0756	1.5304
17	15.16	0.0	0.3007	0.1299	-0.0027	0.0521	-0.0016	0.2829	0.2170	0.0658	1.4803
18	16.16	0.0	0.3191	0.1371	-0.0035	0.0506	-0.0015	0.2819	0.2259	0.0560	1.4256
19	17.22	0.0	0.3391	0.1441	-0.0032	0.0502	-0.0011	0.2791	0.2312	0.0479	1.3367
20	18.26	0.0	0.3585	0.1512	-0.0034	-0.0009	-0.0006	0.2755	0.2372	0.0384	1.2911
21	19.36	0.0	0.3781	0.1579	-0.0034	-0.0218	-0.0000	0.2692	0.2418	0.0274	1.2268
22	20.44	0.0	0.5012	0.1665	-0.0065	-0.0298	-0.0003	0.2626	0.2457	0.0169	1.1741

ARNOLD ENGINEERING DEVELOPMENT CENTER(ARDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH NUMBER	PHI	CLMR	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2	16	0.65	0.0	93.000	0.0	OFF	OFF	OFF	OFF	FREE

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-0.0030	0.2320	0.1448	0.0871	2.0197
2	-0.67	-0.0	-0.0173	[illegible]	[illegible]	0.0278	-0.0026	0.2291	0.1353	0.0939	0.4827
3	0.38	0.0	0.0322	[illegible]	[illegible]	0.0283	-0.0028	0.2317	0.1373	0.0944	2.3426
4	1.43	0.0	0.0922	0.1866	-0.0033	0.0361	-0.0034	0.2336	0.1529	0.0807	2.1951
5	2.45	0.0	0.1218	0.2986	-0.0035	0.0350	-0.0036	0.2375	0.1601	0.0774	2.4412
6	3.53	0.0	0.1654	0.4156	-0.0037	0.0371	-0.0033	0.2423	0.1646	0.0775	2.4919
7	4.55	0.0	0.2030	[illegible]	[illegible]	[illegible]	-0.0028	0.2477	0.1670	0.0807	2.5605
8	5.63	0.0	0.2465	0.6940	-0.0045	0.0412	-0.0036	0.2551	0.1706	0.0845	2.4221
9	6.66	0.0	0.2816	0.8136	-0.0065	0.0406	-0.0032	0.2631	0.1772	0.0860	2.3997
10	7.72	0.0	0.3224	0.9350	-0.0024	0.0418	-0.0032	0.2698	0.1814	0.0845	2.2098
11	8.82	0.0	0.3624	[illegible]	[illegible]	0.0426	-0.0034	0.2736	0.1853	0.0861	1.9911
12	9.84	0.0	0.3982	0.9971	[illegible]	0.0341	-0.0038	0.2771	0.1905	0.0846	1.9122
13	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-0.0027	0.2803	0.1944	0.0859	1.7699
14	11.97	0.0	0.4343	1.1342	-0.0065	[illegible]	-0.0031	0.2812	0.1994	0.0818	1.6832
15	13.01	0.0	0.4787	1.2434	[illegible]	0.0257	-0.0028	0.2814	0.2071	0.0743	1.6096
16	14.12	0.0	0.5242	1.3509	0.0157	0.0217	-0.0025	0.2804	0.2115	0.0690	1.5247
17	15.21	0.0	0.5653	1.4603	0.0176	0.0163	-0.0023	0.2802	0.2205	0.0597	1.4702
18	16.29	0.0	1.0058	1.5704	0.0127	0.0076	-0.0012	0.2768	0.2272	0.0496	1.3971
19	17.34	0.0	1.1658	1.6810	[illegible]	[illegible]	-0.0013	0.2756	0.2344	0.0412	1.3351
20	18.43	0.0	1.2744	1.7931	0.0134	0.0013	-0.0012	0.2705	0.2390	0.0315	1.2781
21	19.55	0.0	1.3948	1.9043	[illegible]	-0.0253	-0.0017	0.2625	0.2439	0.0186	1.2223
22	20.65	0.0	1.5379	1.7090	0.0310	-0.0461	-0.0021	0.2551	0.2489	0.0062	1.1502

MAVTI - MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RNL=6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
7	24	0.59	0.3	0.0	83.0015	0.0	0	0	0	0	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-1.61	0.00	-0.1411	0.0194	-0.1264	-0.0313	0.0124	0.5572	0.0877	0.4696	-1.2753
2	-0.60	0.0	-0.0405	0.0101	-0.0126	-0.0040	0.0104	0.5465	0.0859	0.4629	-1.3671
3	0.38	0.00	0.0336	-0.0033	-0.0107	-0.0025	0.0100	0.5395	0.0786	0.4608	-0.9536
4	1.42	0.0	0.1232	-0.0142	-0.0110	-0.0014	0.0053	0.5308	0.0772	0.4536	-1.3992
5	2.44	0.00	0.1997	-0.0208	-0.0117	-0.0024	0.0073	0.5306	0.0768	0.4537	-1.3752
6	3.38	0.0	0.2661	-0.0269	-0.0096	-0.0035	0.0017	0.5334	0.0792	0.4542	-1.5368
7	4.38	0.0	0.3315	-0.0312	-0.0122	-0.0042	0.0095	0.5157	0.0784	0.4373	-1.4758
8	5.39	0.0	0.4052	-0.0373	-0.0130	-0.0045	0.0035	0.4817	0.0850	0.3967	-1.5512
9	6.41	0.00	0.4747	-0.0431	-0.0141	-0.0051	0.0086	0.4562	0.0876	0.3686	-1.6261
10	7.41	0.0	0.5464	-0.0496	-0.0150	-0.0060	0.0151	0.4397	0.0951	0.3447	-1.6736
11	8.47	0.0	0.6213	-0.0562	-0.0166	-0.0069	0.0001	0.4251	0.1000	0.3251	-1.7219
12	9.42	0.0	0.6963	-0.0627	-0.0177	-0.0073	0.0102	0.4061	0.1005	0.3056	-1.7210
13	10.41	0.0	0.7657	-0.0687	-0.0188	-0.0080	0.0000	0.3769	0.1056	0.2713	-1.7533
14	11.42	0.0	0.8351	-0.0748	-0.0197	-0.0083	0.0051	0.3584	0.1160	0.2424	-1.7921
15	12.44	0.0	0.9049	-0.0811	-0.0202	-0.0086	0.0071	0.3369	0.1316	0.2054	-1.7943
16	13.45	0.0	0.9731	-0.0870	-0.0210	-0.0093	0.0143	0.3247	0.1333	0.1914	-1.7904
17	14.43	0.0	1.0411	-0.0931	-0.0216	-0.0096	0.0050	0.3173	0.1371	0.1802	-1.8131
18	15.44	0.0	1.1099	-0.0993	-0.0224	-0.0101	-0.0016	0.3003	0.1506	0.1497	-1.8196
19	16.44	0.0	1.1777	-0.1054	-0.0230	-0.0104	0.0120	0.2910	0.1626	0.1284	-1.7776
20	17.47	0.0	1.2456	-0.1115	-0.0240	-0.0109	0.0193	0.2807	0.1646	0.1161	-1.7577
21	18.51	0.0	1.3133	-0.1176	-0.0247	-0.0117	0.0087	0.2629	0.1724	0.0905	-1.7702
22	19.47	0.0	1.3780	-0.1234	0.0063	-0.0125	0.0016	0.2467	0.1753	0.0714	-1.7246

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 2 OF 3
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH NO.	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2	24	0.59	0.3	0.0	M3-0F15	0.0	0	0	0	0	FIXED

POINT	ALPHA	BETA	CNF1	CM1	CN1	XCPF1	YCPF1	CNF2	CM2	CN2	XCPF2	YCPF2
1	-1.01	0.0	0.0000	0.0000	0.0000	0.0000	0.0000	-0.0516	-0.0134	-0.0340	0.2603	0.0591
2	-0.01	0.0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0016	-0.0017	-0.0468	-1.0453	-29.4465
3	0.3E	0.0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0114	0.0005	-0.0525	0.0461	-4.6256
4	1.02	0.0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0352	0.0011	0.0079	0.0302	0.1998
5	2.03	0.0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0947	0.0079	-0.0243	0.0834	-0.2564
6	3.05	0.0	0.0000	0.0000	0.0000	0.0000	0.0000	0.1441	0.0184	-0.0043	0.1303	-0.0301
7	4.3E	0.0	0.0000	0.0000	0.0000	0.0000	0.0000	0.1786	0.0213	0.0258	0.1194	0.1443
8	5.39	0.0	0.0000	0.0000	0.0000	0.0000	0.0000	0.2254	0.0273	0.0261	0.1213	0.1157
9	6.41	0.0	0.0000	0.0000	0.0000	0.0000	0.0000	0.3024	0.0389	0.0581	0.1285	0.1955
10	7.41	0.0	0.0000	0.0000	0.0000	0.0000	0.0000	0.3626	0.0469	0.0775	0.1350	0.2137
11	8.47	0.0	0.0000	0.0000	0.0000	0.0000	0.0000	0.4310	0.0552	0.0963	0.1281	0.2082
12	9.42	0.0	0.0000	0.0000	0.0000	0.0000	0.0000	0.4354	0.0465	0.1216	0.1068	0.2792
13	10.41	0.0	0.0000	0.0000	0.0000	0.0000	0.0000	0.4761	0.0494	0.1378	0.1038	0.2895
14	11.42	0.0	0.0000	0.0000	0.0000	0.0000	0.0000	0.5590	0.0689	0.1325	0.1233	0.2370
15	12.44	0.0	0.0000	0.0000	0.0000	0.0000	0.0000	0.5981	0.0691	0.1703	0.1156	0.2847
16	13.45	0.0	0.0000	0.0000	0.0000	0.0000	0.0000	0.6458	0.0758	0.1860	0.1174	0.2788
17	14.43	0.0	0.0000	0.0000	0.0000	0.0000	0.0000	0.7077	0.0764	0.1810	0.1086	0.2558
18	15.44	0.0	0.0000	0.0000	0.0000	0.0000	0.0000	0.7640	0.0836	0.1976	0.1097	0.2586
19	16.44	0.0	0.0000	0.0000	0.0000	0.0000	0.0000	0.7957	0.0780	0.2145	0.0980	0.2696
20	17.47	0.0	0.0000	0.0000	0.0000	0.0000	0.0000	0.8376	0.0786	0.2296	0.0938	0.2741
21	18.51	0.0	0.0000	0.0000	0.0000	0.0000	0.0000	0.8912	0.0835	0.2747	0.0916	0.3018
22	19.47	0.0	0.0000	0.0000	0.0000	0.0000	0.0000	0.9246	0.0713	0.2873	0.0772	0.3107

TEST	MAPI	MACH	REI	PMI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2	24	0.89	0.3	0.0	B3-UF15	0.0	0	0	0	0	FIXED

POINT	ALPHA	PHI	CNF3	CM3	CN3	XCPF3	YCPF3	CNF4	CM4	CN4	XCPF4	YCPF4
1	-1.61	0.0	-0.1417	-0.0455	-0.1402	0.1548	4.3224	-0.0170	-0.0007	-0.0227	0.0390	1.3377
2	-0.80	0.0	-0.0194	0.0178	-0.1430	1.6514	16.6431	-0.0419	-0.0062	0.0762	0.1471	-1.7711
3	0.38	0.0	-0.1888	-0.1243	-0.2893	0.3671	5.2561	0.0827	0.0026	-0.0935	0.0388	-1.3820
4	1.42	0.0	-0.0778	-0.0528	-0.0197	0.3160	0.2548	0.0781	-0.0106	-0.0646	-0.1353	-0.8777
5	2.40	0.0	-0.0780	-0.0301	-0.0065	0.3403	0.8928	0.1252	0.0184	0.0492	0.1470	0.3933
6	3.38	0.0	-0.1471	-0.0437	0.2276	0.4047	-2.1240	0.1675	0.0246	0.0724	0.1471	0.4320
7	4.34	0.0	-0.2616	-0.0251	0.0539	0.3641	-1.6264	0.2402	0.0345	0.0878	0.1470	0.3812
8	5.29	0.0	-0.3451	-0.0387	0.0458	0.3249	-1.3799	0.2964	0.0500	0.1011	0.1697	0.3408
9	6.21	0.0	-0.3852	-0.0355	0.1113	0.4116	-1.2980	0.3166	0.0419	0.1536	0.1324	0.4845
10	7.21	0.0	-0.4041	-0.0281	-0.1774	0.3461	2.1432	0.4076	0.0525	0.1007	0.1298	0.2469
11	8.17	0.0	-0.5323	-0.1825	-0.0866	0.2823	1.1233	0.4410	0.0630	0.1866	0.1028	0.4226
12	9.12	0.0	-0.6394	-0.0367	0.1557	0.3545	-1.6112	0.4906	0.0647	0.2151	0.1319	0.4384
13	10.01	0.0	-0.6738	-0.1205	-0.2983	0.2234	2.8371	0.5021	0.0733	0.2321	0.1452	0.4281
14	11.02	0.0	-0.7115	-0.0459	0.0367	0.3444	-0.2906	0.5625	0.0717	0.3011	0.1276	0.5353
15	12.04	0.0	-0.7478	-0.0345	-0.2967	0.3185	1.5052	0.6508	0.0819	0.2579	0.1259	0.3963
16	13.05	0.0	-0.7851	-0.0341	-0.1944	0.3470	1.7374	0.6614	0.0496	0.2961	0.0774	0.4617
17	14.03	0.0	-0.8787	-0.1218	0.1279	0.2642	-1.6040	0.7412	0.0962	0.3546	0.1298	0.4783
18	15.00	0.0	-0.8264	0.0397	-0.0345	-0.3940	1.5867	0.7975	0.0897	0.3272	0.1125	0.4103
19	15.99	0.0	-0.8736	-0.0178	-0.0854	0.2234	1.2969	0.8218	0.0861	0.3553	0.1047	0.4324
20	17.47	0.0	-0.9207	-0.0442	0.1453	0.3567	-1.4860	0.8855	0.0934	0.3442	0.1055	0.4113
21	18.51	0.0	-0.9856	-0.0267	0.0367	0.1333	-0.5315	0.9527	0.0985	0.3805	0.1034	0.3994
22	19.47	0.0	-0.9299	-0.0423	0.2371	0.3262	-1.8296	0.9435	0.0928	0.3766	0.0944	0.3849

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 3 -ANTI- MISSILE TAIL EFFECTS DATA
SHEET 1 OF 1

JESI	PART	MACH	VALUE	PHI	CORE	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2	26	3.57	0.0	0.0	83.0715	0.0	0	0	0	0	FIXED

POINT	ALPHA	BETA	CN	CLN	CY	CLN	CLL	CA	CAN	CAF	ACP
1	-1.01	[illegible]	-0.0503	[illegible]	-0.0758	-0.0360	-0.0246	0.0787	0.1147	0.4542	-1.6734
2	-0.01	0.0	0.0127	-0.0301	-0.0351	-0.0523	-0.0247	0.0828	0.1115	0.3509	-2.8307
3	0.99	0.0	0.0336	-0.1213	-0.0877	-0.0629	-0.0288	0.0839	0.1086	0.3556	-1.4583
4	1.02	0.0	0.0219	-0.0536	-0.0574	-0.0736	-0.0282	0.0710	0.0995	0.3815	-1.4629
5	2.04	0.0	0.0397	-0.0956	-0.0803	-0.0570	-0.0227	0.0884	0.0878	0.3806	-1.3402
6	3.01	0.0	0.0212	-0.0503	-0.0571	-0.0527	-0.0260	0.0649	0.0479	0.3770	-1.3889
7	4.02	0.0	0.0242	-0.0584	-0.0784	-0.0565	-0.0316	0.0560	0.0876	0.3664	-1.4945
8	5.00	0.0	0.0731	-0.1861	-0.0965	-0.0556	-0.0355	0.0522	0.0968	0.3575	-1.5733
9	6.03	0.0	0.0611	-0.1592	-0.0967	-0.0691	-0.0315	0.0576	0.0963	0.3632	-1.6618
10	7.05	0.0	0.0745	-0.1935	-0.0911	-0.0811	-0.0346	0.0438	0.1001	0.3437	-1.7004
11	8.01	0.0	0.1006	-0.1745	-0.1061	-0.0877	-0.0284	0.0203	0.1110	0.3099	-1.7314
12	9.02	0.0	0.0961	-0.2501	-0.0950	-0.0965	-0.0342	0.0191	0.1146	0.3044	-1.7791
13	10.05	0.0	0.0824	-0.2137	-0.0954	-0.0945	-0.0336	0.0127	0.1166	0.2958	-1.8263
14	11.06	0.0	0.0961	-0.2512	-0.0912	-0.0960	-0.0332	0.0044	0.1264	0.2749	-1.8276
15	12.06	0.0	0.1211	-0.3222	-0.0977	-0.0919	-0.0385	0.0055	0.1303	0.2752	-1.8651
16	13.08	0.0	0.1211	-0.3197	-0.0981	-0.0955	-0.0249	0.0492	0.1319	0.2673	-1.8474
17	14.06	0.0	0.0981	-0.2594	-0.0961	-0.0961	-0.0322	0.0307	0.1419	0.2568	-1.8593
18	15.06	0.0	0.0734	-0.1976	-0.0960	-0.0950	-0.0302	0.0136	0.1479	0.2557	-1.8795
19	16.51	0.0	0.0814	-0.2178	-0.0974	-0.0962	-0.0307	0.0022	0.1567	0.2455	-1.8912
20	17.04	0.0	0.0643	-0.1694	-0.0981	-0.0982	-0.0264	0.0069	0.1661	0.2409	-1.8911
21	18.06	0.0	0.0581	-0.1543	-0.0978	-0.0978	-0.0113	0.0038	0.1731	0.2304	-1.8688
22	19.07	0.0	0.1047	-0.2769	-0.1052	0.0785	-0.0157	0.0099	0.1810	0.2289	-1.8704

MARTIN MISSILE TAIL EFFECTS DATA

TEST PART MACH Values PHI CUT L DEL1 DEL2 DEL3 DELA TRANSITION
2 2A 0.5V 0.6 0.0 +3.0E15 0.0 0 0 0 0 FIXED

POINT	ALPHA	BETA	CNF1	CM1	CN1	XCPF1	YCPF1	CNF2	CN2	CM2	XCPF2	YCPF2
1	[illegible]	0.0	[illegible]	[illegible]	[illegible]	[illegible]	9.9999	-0.0416	-0.0116	-0.1116	0.2842	2.6804
2	-0.50	0.0	[illegible]	[illegible]	[illegible]	9.9999	9.9999	-0.0144	-0.0136	-0.0826	0.9113	5.5315
3	-0.44	0.0	[illegible]	[illegible]	[illegible]	9.9999	9.9999	0.0195	-0.0023	-0.0841	-0.1156	-4.5705
4	1.02	0.0	[illegible]	[illegible]	[illegible]	9.9999	9.9999	0.0583	0.0068	-0.0577	0.1161	-0.9997
5	2.48	0.0	[illegible]	[illegible]	[illegible]	9.9999	9.9999	0.0421	0.0062	-0.0419	0.0670	-0.4549
6	3.01	0.0	[illegible]	[illegible]	[illegible]	9.9999	9.9999	0.1342	0.0131	-0.0306	0.0977	-0.2283
7	4.46	0.0	[illegible]	[illegible]	[illegible]	[illegible]	9.9999	0.1885	0.0202	-0.0204	0.1072	-0.1080
8	5.00	0.0	[illegible]	[illegible]	[illegible]	9.9999	9.9999	0.2370	0.0252	0.0	0.1062	0.0
9	6.43	0.0	[illegible]	[illegible]	[illegible]	[illegible]	9.9999	0.2962	0.0325	0.0262	0.1099	0.0884
10	7.45	0.0	[illegible]	[illegible]	[illegible]	9.9999	9.9999	0.3522	0.0393	0.0545	0.1117	0.1548
11	8.01	0.0	[illegible]	[illegible]	[illegible]	[illegible]	9.9999	0.4124	0.0479	0.0841	0.1162	0.1559
12	9.02	0.0	[illegible]	[illegible]	[illegible]	9.9999	9.9999	0.4663	0.0495	0.1110	0.1062	0.2381
13	10.03	0.0	[illegible]	[illegible]	[illegible]	[illegible]	9.9999	0.5366	0.0609	0.1064	0.1134	0.2028
14	11.04	0.0	[illegible]	[illegible]	[illegible]	9.9999	9.9999	0.5804	0.0596	0.1420	0.1031	0.2446
15	12.02	0.0	[illegible]	[illegible]	[illegible]	[illegible]	9.9999	0.6486	0.0673	0.1407	0.1036	0.2169
16	13.00	0.0	[illegible]	[illegible]	[illegible]	9.9999	9.9999	0.7109	0.0773	0.1669	0.1086	0.2376
17	13.97	0.0	[illegible]	[illegible]	[illegible]	[illegible]	9.9999	0.7521	0.0788	0.1792	0.1047	0.2382
18	15.00	0.0	[illegible]	[illegible]	[illegible]	9.9999	9.9999	0.8233	0.0892	0.1825	0.1083	0.2216
19	15.51	0.0	[illegible]	[illegible]	[illegible]	[illegible]	9.9999	0.8641	0.0863	0.2225	0.0983	0.2560
20	17.04	0.0	[illegible]	[illegible]	[illegible]	9.9999	9.9999	0.9275	0.0878	0.2374	0.0947	0.2560
21	17.98	0.0	[illegible]	[illegible]	[illegible]	[illegible]	9.9999	0.9862	0.0885	0.2519	0.0916	0.2687
22	19.07	0.0	[illegible]	[illegible]	[illegible]	9.9999	9.9999	0.9945	0.0872	0.2488	0.0877	0.2502

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 3 OF 3
SHEET 1 OF 1
SEPTIN MISSILE TAIL EFFECTS DATA

TEST 4ANI MACH.NO=6 PHI CONF L DEL1 DEL2 DEL3 DELA TRANSITION
Z 00 0.0Y 0.0 0.0 ASSUMED 0.0 0 0 0 0 FIXED

POINT	ALPHA	BETA	CNF3	CM3	CP3	XCPF3	YCPF3	CNF4	CM4	CP4	XCPF4	YCPF4
1	-1.01	0.00	-0.01	-0.0029	-0.0257	-1.7654	1.7374	-0.0348	-0.0096	-0.0119	2.0466	2.4948
2	-0.98	0.0	-0.1	-0.139	-1.1418	0.3849	3.0746	-0.0047	-0.0096	0.0491	2.0514	-10.4362
3	0.49	0.00	-0.05	-0.0249	-0.2542	0.0815	4.5215	0.0560	0.0038	0.0193	0.0671	0.3653
4	1.47	0.0	-0.0	-0.0	-0.1654	0.4538	1.4634	0.0402	0.0047	0.0513	0.0586	0.6397
5	2.48	0.00	-0.0	-0.0	0.1155	0.4956	-1.3545	0.1394	0.0134	0.0633	0.0460	0.4538
6	3.01	0.0	-0.1	-0.0	0.1105	0.4142	-1.6776	0.1779	0.0197	0.0831	0.1106	0.4667
7	4.96	0.00	-0.0	-0.0	-0.0429	0.4243	2.0052	0.2363	0.0263	0.1014	0.1187	0.4292
8	5.49	0.0	-0.0	-0.0	-0.1414	0.4313	2.0718	0.2873	0.0351	0.1169	0.1222	0.4068
9	6.43	0.00	-0.0	-0.0	0.1285	0.4158	-1.5557	0.3264	0.0351	0.1570	0.1073	0.4804
10	7.45	0.0	-0.1	-0.0	-0.2031	0.4476	1.9821	0.3937	0.0456	0.1992	0.1158	0.5061
11	8.01	0.0	-0.0	-0.0	-0.2436	0.4767	2.3828	0.4526	0.0543	0.1473	0.1199	0.4368
12	9.02	0.0	-0.0	-0.0	0.0812	0.3557	-0.8779	0.5050	0.0548	0.2256	0.1085	0.4484
13	10.05	0.00	-0.0	-0.0	-0.2234	0.2726	2.4121	0.5726	0.0654	0.2467	0.1142	0.4340
14	11.00	0.0	-0.0	-0.0	0.0006	0.4011	0.0064	0.6144	0.0702	0.3014	0.1143	0.4904
15	12.04	0.00	-0.0	-0.0	-0.0408	0.3740	-0.4580	0.6681	0.0732	0.2846	0.1064	0.4194
16	13.04	0.0	-0.0	-0.0	-0.1849	0.3743	2.0412	0.7367	0.0749	0.3107	0.1020	0.4232
17	14.04	0.00	-0.0	-0.0	0.0502	0.4026	-0.5221	0.7826	0.0879	0.3736	0.1123	0.4775
18	15.00	0.0	-0.0	-0.0	-0.0592	0.2945	0.9447	0.8349	0.0852	0.3513	0.1015	0.4188
19	16.01	0.00	-0.0	-0.0	-0.2128	0.3142	2.7353	0.8723	0.0817	0.3728	0.0936	0.4274
20	17.00	0.0	-0.0	-0.0	-0.0735	0.2744	1.1890	0.9401	0.0876	0.3908	0.0932	0.4221
21	18.00	0.00	-0.0	-0.0	-0.1654	0.2878	2.1769	1.0048	0.0938	0.4040	0.0929	0.4040
22	19.07	0.0	-0.0	-0.0	-0.0384	0.3417	0.3982	1.0381	0.0880	0.4180	0.0848	0.4027

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)

PAGE 1 OF 3

SHEET 1 OF 1

HAWK MISSILE TAIL EFFECTS DATA

TEST PART CALC PARMS PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION

2 27 0.654 3.7 0.0 0 0 0. 0 FIXED

POINT	ALPHA	BETA	CN	CLN	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-1.01	0.0	-0.1734	0.1292	-0.1763	0.0719	-1.0747	0.3748	0.0921	0.2805	-1.7645
2	-0.98	0.0	-0.1678	-0.0004	-0.1744	0.0636	-0.0796	0.3814	0.0909	0.2905	-0.3012
3	0.00	0.0	0.1699	-0.0022	-0.0004	0.0007	-0.0771	0.3769	0.0931	0.2838	-1.0967
4	1.01	0.0	0.2062	-0.0029	-0.0004	0.0570	-0.0804	0.3797	0.0930	0.2867	-1.3497
5	2.02	0.0	0.3504	-0.0033	-0.0717	0.0578	-0.0843	0.3743	0.0942	0.2851	-1.3788
6	3.00	0.0	0.4494	-0.0038	-0.0832	0.0635	-0.0885	0.3754	0.0941	0.2813	-1.3831
7	4.03	0.0	0.5700	-0.0041	-0.0961	0.0516	-0.0828	0.3765	0.0945	0.2819	-1.5204
8	5.05	0.0	0.7216	-0.0504	-0.0905	0.0357	-0.0829	0.3697	0.0947	0.2751	-1.6005
9	6.02	0.0	0.8396	-0.0849	-0.0872	0.0256	-0.0838	0.3727	0.0947	0.2730	-1.6608
10	7.03	0.0	1.0294	-0.1065	-0.0805	0.0494	-0.0766	0.3770	0.1056	0.2713	-1.7155
11	8.07	0.0	1.1394	-0.1278	-0.0842	0.0491	-0.0887	0.3702	0.1106	0.2596	-1.7449
12	9.06	0.0	1.2944	-0.1433	-0.0838	0.0444	-0.0849	0.3764	0.1183	0.2581	-1.8009
13	10.06	0.0	1.4317	-0.1577	-0.0877	0.0284	-0.0898	0.3715	0.1217	0.2502	-1.8101
14	11.56	0.0	1.6467	-0.1771	-0.0871	0.0435	-0.0865	0.3706	0.1292	0.2414	-1.8323
15	12.07	0.0	1.7624	-0.1971	-0.0858	0.0427	-0.0823	0.3620	0.1369	0.2251	-1.8016
16	13.51	0.0	1.9751	-0.2163	-0.0790	0.0531	-0.0868	0.3543	0.1406	0.2137	-1.8502
17	14.07	0.0	2.1515	-0.2326	-0.0722	0.0645	-0.0868	0.3556	0.1476	0.2091	-1.8586
18	15.09	0.0	2.3103	-0.2492	-0.0662	0.0618	-0.0766	0.3446	0.1522	0.1923	-1.8579
19	16.09	0.0	2.4623	-0.2637	-0.0603	0.0616	-0.0869	0.3477	0.1641	0.1836	-1.8785
20	17.05	0.0	2.7316	-0.2842	-0.0515	0.0705	-0.0869	0.3525	0.1674	0.1851	-1.8757
21	18.51	0.0	2.8844	-0.3022	-0.0514	0.1162	-0.0813	0.3509	0.1741	0.1768	-1.8721
22	19.51	0.0	3.0675	-0.3167	-0.0756	0.0764	-0.0856	0.3507	0.1817	0.1690	-1.8599

ARNOLD ENGINEERING DEVELOPMENT CENTER (AEDC) PROPULSION WIND TUNNEL FACILITY (PWT) AERODYNAMIC WIND TUNNEL (4T)

PAGE 2 OF 3
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	MACH	PHIL-D	PHI	CONF	L	DEL1	DEL2	DEL3	DELA	TRANSITION
7	27	0.59	0.7	0.0	M3.0F15	0.0	0	0	0	0	FIXED

POINT	ALPHA	BETA	CNF1	CM1	CH1	XCPF1	YCPF1	CNF2	CM2	CH2	XCPF2	YCPF2
1	-1.61	0.0	0.0000	0.0000	0.0000	0.0000	0.0000	-0.0157	-0.0087	-0.1069	0.5518	0.9822
2	-0.56	0.0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0239	-0.0034	-0.0479	-0.1650	-0.1044
3	0.48	0.0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0490	-0.0015	-0.0857	-0.0299	-1.7503
4	1.41	0.0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0977	0.0073	-0.0585	0.0748	-0.5986
5	2.42	0.0	0.0000	0.0000	0.0000	0.0000	0.0000	0.1379	0.0138	-0.0608	0.0999	-0.4612
6	3.44	0.0	0.0000	0.0000	0.0000	0.0000	0.0000	0.1872	0.0230	-0.0493	0.1230	-0.2581
7	4.43	0.0	0.0000	0.0000	0.0000	0.0000	0.0000	0.2264	0.0268	-0.0253	0.1172	-0.1113
8	5.45	0.0	0.0000	0.0000	0.0000	0.0000	0.0000	0.2763	0.0311	-0.0045	0.1125	-0.0161
9	6.42	0.0	0.0000	0.0000	0.0000	0.0000	0.0000	0.3466	0.0439	0.0218	0.1267	0.0606
10	7.43	0.0	0.0000	0.0000	0.0000	0.0000	0.0000	0.4049	0.0518	0.0419	0.1278	0.1035
11	8.47	0.0	0.0000	0.0000	0.0000	0.0000	0.0000	0.4557	0.0536	0.0801	0.1175	0.1758
12	9.46	0.0	0.0000	0.0000	0.0000	0.0000	0.0000	0.5136	0.0581	0.1001	0.1131	0.1949
13	10.46	0.0	0.0000	0.0000	0.0000	0.0000	0.0000	0.5553	0.0604	0.1165	0.1087	0.2098
14	11.50	0.0	0.0000	0.0000	0.0000	0.0000	0.0000	0.6306	0.0706	0.1279	0.1119	0.2028
15	12.47	0.0	0.0000	0.0000	0.0000	0.0000	0.0000	0.6898	0.0765	0.1534	0.1109	0.2224
16	13.51	0.0	0.0000	0.0000	0.0000	0.0000	0.0000	0.7641	0.0851	0.1722	0.1113	0.2254
17	14.47	0.0	0.0000	0.0000	0.0000	0.0000	0.0000	0.8142	0.0860	0.1967	0.1056	0.2416
18	15.49	0.0	0.0000	0.0000	0.0000	0.0000	0.0000	0.8546	0.0894	0.2106	0.1047	0.2467
19	16.44	0.0	0.0000	0.0000	0.0000	0.0000	0.0000	0.9165	0.0921	0.2270	0.1007	0.2483
20	17.55	0.0	0.0000	0.0000	0.0000	0.0000	0.0000	0.9736	0.0901	0.2426	0.0926	0.2491
21	18.51	0.0	0.0000	0.0000	0.0000	0.0000	0.0000	1.0212	0.0941	0.2488	0.0921	0.2436
22	19.51	0.0	0.0000	0.0000	0.0000	0.0000	0.0000	1.0503	0.0879	0.2640	0.0837	0.2514

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RN/L*10**6	PHI	CONE	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2	27	0.5V	0.7	0.0	03.0E15	0.0	0	0	0	0	FIXED

POINT	ALPHA	BETA	CNF3	CM3	CN3	XCPF3	YCPF3	CNF4	CM4	CN4	XCPF4	YCPF4
1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.3422	0.0160	-0.0150	-0.0113	-0.0235	0.7502	1.5618
2	-0.98	0.0	-0.[illegible]	-0.[illegible]	0.0379	0.3[illegible]	-0.4273	0.0029	-0.0086	0.0238	-2.9487	0.1541
3	0.40	0.0	-0.[illegible]	-0.[illegible]	-0.0037	0.3[illegible]	0.0465	0.0550	-0.0002	0.0083	0.0033	0.1517
4	1.41	0.0	-0.1014	-0.[illegible]	0.0765	0.3747	-0.7550	0.0856	0.0043	0.0304	0.0502	0.4489
5	2.[illegible]	0.0	-0.[illegible]	-0.[illegible]	0.0568	0.[illegible]	-0.[illegible]	0.1341	-0.0110	0.0491	0.0823	0.3664
6	3.44	0.0	-0.[illegible]	-0.[illegible]	0.0535	0.3812	-0.5540	0.1747	0.0174	0.0707	0.0998	0.4044
7	4.43	0.0	-0.[illegible]	-0.[illegible]	-0.[illegible]	0.2[illegible]	0.6813	0.2336	0.0276	0.0912	0.1182	0.3906
8	5.45	0.0	-0.1142	-0.[illegible]	-0.[illegible]	0.3[illegible]	0.0117	0.2836	0.0334	0.1135	0.1178	0.4003
9	6.42	0.0	-0.[illegible]	-0.[illegible]	0.0671	0.4123	-0.6107	0.3361	0.0384	0.1436	0.1141	0.4274
10	7.43	0.0	-0.[illegible]	-0.[illegible]	-0.0085	0.4046	0.0693	0.3950	0.0457	0.1822	0.1158	0.4613
11	8.47	0.0	-0.[illegible]	-0.[illegible]	-0.[illegible]	0.3[illegible]	0.5671	0.4435	0.0502	0.1938	0.1133	0.4378
12	9.46	0.0	-0.[illegible]	-0.[illegible]	0.0017	0.3735	-0.7941	0.5032	0.0549	0.2171	0.1091	0.4315
13	10.[illegible]	0.0	-0.[illegible]	-0.[illegible]	-0.[illegible]	0.3[illegible]	0.1045	0.5565	0.0605	0.2341	0.1088	0.4296
14	11.50	0.0	-0.[illegible]	-0.[illegible]	0.0758	0.3259	-0.7711	0.6160	0.0674	0.2821	0.1103	0.4579
15	12.47	0.0	-0.[illegible]	-0.[illegible]	0.0661	0.2[illegible]	-0.0[illegible]	0.6862	0.0725	0.2762	0.1059	0.4036
16	13.51	0.0	-0.[illegible]	-0.0[illegible]	-0.0225	0.2[illegible]	0.2[illegible]	0.7427	0.0758	0.3099	0.1021	0.4173
17	14.47	0.0	-0.[illegible]	-0.[illegible]	0.0[illegible]	0.3[illegible]	-0.3796	0.7964	0.0849	0.3578	0.1066	0.4483
18	15.49	0.0	-0.1035	-0.[illegible]	0.0[illegible]	0.3[illegible]	-0.5906	0.8494	0.0937	0.3510	0.0986	0.4133
19	16.[illegible]	0.0	-0.[illegible]	-0.[illegible]	0.0[illegible]	0.3[illegible]	0.3352	0.9160	0.0[illegible]	0.3601	0.0923	0.4160
20	17.55	0.0	-0.1[illegible]	-0.[illegible]	0.0515	0.3[illegible]	-0.3799	0.9733	0.0978	0.3915	0.0902	0.4022
21	18.51	0.0	-0.[illegible]	-0.[illegible]	0.0102	0.3[illegible]	0.1206	1.0276	0.0[illegible]	0.4118	0.0826	0.4006
22	19.51	0.0	-0.1[illegible]	-0.[illegible]	0.0740	0.3722	-0.5300	1.0803	0.0[illegible]	0.4177	0.0781	0.3867

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)

PAGE 1 OF 3

SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RATIOS	PHI	CONF	L	DEL1	DEL2	DEL3	DELA	TRANSITION
2	31	0.59	1.1	0.0	M3V0F15	0.0	0	0	0	0	FIXED

POINT	ALPHA	BETA	CN	CLN	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-1.02	0.0	-0.0134	0.1342	-0.0524	0.0451	0.0048	0.3210	0.0934	0.2271	-1.3423
2	-0.45	0.0	-0.0024	0.0358	-0.0497	0.0013	0.0074	0.3214	0.0924	0.2290	-1.2609
3	0.43	0.0	0.0093	-0.1284	-0.0018	-0.0345	0.0047	0.3187	0.0946	0.2241	-1.4378
4	1.43	0.0	0.1782	-0.2352	-0.0501	0.0093	0.0052	0.3197	0.0943	0.2254	-1.3308
5	2.39	0.0	0.2852	-0.4075	-0.0501	0.0671	0.0070	0.3182	0.0950	0.2232	-1.4141
6	3.42	0.0	0.3997	-0.5736	-0.0537	0.0592	0.0055	0.3173	0.0980	0.2193	-1.4079
7	4.44	0.0	0.5327	-0.7484	-0.0515	0.0533	0.0072	0.3168	0.0965	0.2203	-1.5429
8	5.43	0.0	0.6584	-1.0561	-0.0484	0.0450	0.0049	0.3142	0.0972	0.2170	-1.6149
9	6.43	0.0	0.8013	-1.3814	-0.0484	0.0434	0.0041	0.3191	0.1031	0.2159	-1.6998
10	7.45	0.0	0.9454	-1.6812	-0.0453	0.0451	0.0117	0.3177	0.1057	0.2120	-1.7726
11	8.46	0.0	1.1111	-2.0126	-0.0548	0.0394	0.0102	0.3216	0.1126	0.2068	-1.8248
12	9.47	0.0	1.2778	-2.3614	-0.0462	0.0469	0.0121	0.3238	0.1186	0.2052	-1.8483
13	10.51	0.0	1.4335	-2.6922	-0.0420	0.0325	0.0116	0.3224	0.1265	0.1959	-1.8710
14	11.50	0.0	1.6126	-3.0342	-0.0454	0.0406	0.0066	0.3206	0.1325	0.1880	-1.8816
15	12.50	0.0	1.7772	-3.3515	-0.0428	0.0364	0.0082	0.3184	0.1352	0.1832	-1.8859
16	13.50	0.0	1.9549	-3.6917	-0.0398	0.0256	0.0065	0.3167	0.1391	0.1777	-1.8916
17	14.53	0.0	2.1255	-4.0187	-0.0293	0.0279	0.0095	0.3045	0.1437	0.1658	-1.8908
18	15.55	0.0	2.3267	-4.3745	-0.0372	0.0149	0.0099	0.3122	0.1529	0.1593	-1.8802
19	16.53	0.0	2.4945	-4.6782	-0.0350	0.0023	0.0180	0.3081	0.1581	0.1500	-1.8745
20	17.55	0.0	2.7141	-5.0654	-0.0298	-0.0041	0.0202	0.3043	0.1645	0.1398	-1.8709
21	18.55	0.0	2.9025	-5.4347	-0.0348	0.0143	0.0154	0.3038	0.1760	0.1275	-1.8705
22	19.60	0.0	3.1150	-5.7557	-0.0034	-0.0304	0.0233	0.3044	0.1868	0.1176	-1.8478

MANTIS MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	ALPHA	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2	31	0.89	1.1	0.0	43.0F15	0.0	0	0	0	0	FIXED

POINT	ALPHA	BETA	CNF1	CM1	CA1	XCPF1	YCPF1	CNF2	CM2	CA2	XCPF2	YCPF2
1	-1.02	0.0	-0.0118	-0.0315	-0.6631	0.1005	0.2307	-0.0544	-0.0127	-0.6218	0.2336	0.3830
2	-0.45	0.0	-0.0099	-0.0230	-0.6649	0.0418	0.4549	-0.0120	-0.0044	-0.6153	0.3626	1.2741
3	0.03	0.0	-0.0053	0.0104	-0.6806	0.0610	0.0687	0.0221	0.0011	-0.6009	0.0507	-0.0393
4	1.03	0.0	-0.0093	0.0193	-0.6147	-0.0349	3.1274	0.0551	0.0067	0.0151	0.1217	0.2736
5	2.03	0.0	-0.0105	-0.0242	-0.6422	0.1357	0.2617	0.1021	0.0166	0.0311	0.1567	0.3047
6	3.02	0.0	-0.0139	-0.0315	-0.6006	0.1506	0.0279	0.1479	0.0243	0.0639	0.1640	0.2972
7	4.03	0.0	-0.0172	-0.0403	-0.6234	0.1364	1.3625	0.2005	0.0310	0.0651	0.1546	0.3248
8	5.03	0.0	-0.0203	0.0203	-0.6054	-0.0347	0.4365	0.2510	0.0371	0.0652	0.1477	0.3702
9	6.03	0.0	-0.0253	0.0303	-0.6031	-0.0391	0.4976	0.3119	0.0431	0.1167	0.1383	0.3805
10	7.05	0.0	-0.0278	-0.0312	-0.0133	0.1352	1.5425	0.3731	0.0522	0.1619	0.1399	0.3805
11	8.02	0.0	-0.0334	-0.0410	0.0010	0.0416	-0.1039	0.4371	0.0602	0.1504	0.1376	0.3448
12	9.03	0.0	-0.0384	0.0103	-0.0006	-0.0349	0.0605	0.4952	0.0651	0.1807	0.1314	0.3650
13	10.01	0.0	-0.0434	-0.0497	0.0076	0.1521	-0.3746	0.5574	0.0699	0.2123	0.1254	0.3808
14	11.00	0.0	-0.0484	-0.0615	-0.0179	0.1044	1.2409	0.6100	0.0744	0.2345	0.1219	0.3878
15	12.00	0.0	-0.0534	-0.0684	0.0015	0.1859	-0.1535	0.6745	0.0833	0.2524	0.1228	0.3728
16	13.00	0.0	-0.0572	-0.0742	-0.0103	0.1755	0.5819	0.7325	0.0958	0.2738	0.1171	0.3820
17	14.03	0.0	-0.0615	-0.0815	-0.0089	0.1669	0.6366	0.7791	0.0867	0.2925	0.1113	0.3754
18	15.05	0.0	-0.0713	0.0905	-0.0079	-0.0134	5.8582	0.8443	0.0928	0.3194	0.1099	0.3771
19	16.03	0.0	-0.0761	-0.0971	-0.0021	0.1835	0.0718	0.8978	0.0975	0.3287	0.1067	0.3574
20	17.00	0.0	-0.0807	0.1034	-0.0142	0.2353	-1.1339	0.9533	0.0949	0.3372	0.1038	0.3537
21	18.05	0.0	-0.0867	-0.1112	-0.0108	0.1334	1.2220	0.9959	0.0959	0.3541	0.0963	0.3555
22	19.00	0.0	-0.0907	-0.0932	-0.0102	0.3266	1.0549	1.0398	0.0971	0.3600	0.0934	0.3662

MANTIS MISSILE TAIL EFFECTS DATA

TEST	PART	MACH NO.	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2	31	0.59	1.1	0.0	03=6F15	0.0	0	0	0	0	FIXED

POINT	ALPHA	BETA	CNF3	CM3	CA3	XCPF3	YCPF3	CNF4	CM4	CA4	XCPF4	YCPF4
1	-1.62	0.0	0.0013	0.071	-0.0058	0.8584	-0.7245	-0.0459	-0.0375	-0.0264	0.1640	0.5747
2	-0.65	0.0	-0.0021	0.0004	-0.0020	-0.1974	0.9659	-0.0226	-0.0015	0.0004	0.0670	-0.0168
3	0.03	0.0	-0.0009	-0.0029	0.0023	0.3782	-0.3804	0.0337	0.0083	0.0036	0.2466	0.1061
4	1.03	0.0	-0.0239	-0.0115	0.0061	0.4935	-0.2611	0.0745	0.0182	0.0127	0.2442	0.1785
5	2.35	0.0	-0.0172	-0.0103	0.0036	0.4948	-0.2196	0.1130	0.0241	0.0334	0.2132	0.2953
6	3.02	0.0	-0.0157	-0.0071	0.0032	0.4535	-0.2033	0.1346	0.0245	0.0444	0.1819	0.4784
7	4.04	0.0	-0.0141	-0.0054	0.0026	0.4164	-0.1631	0.2045	0.0375	0.0767	0.1792	0.3659
8	5.03	0.0	-0.0061	0.0000	-0.0012	-0.1496	0.2937	0.2610	0.0428	0.1040	0.1640	0.3985
9	6.45	0.0	-0.0143	-0.0082	0.0003	0.2654	0.0007	0.3286	0.0551	0.1418	0.1676	0.4316
10	7.45	0.0	-0.0233	-0.0107	0.0071	0.4430	-0.2140	0.3746	0.0566	0.1557	0.1512	0.4156
11	8.06	0.0	-0.0326	-0.0162	0.0068	0.4957	-0.2094	0.4415	0.0662	0.2093	0.1500	0.4748
12	9.04	0.0	-0.0230	-0.0065	0.0023	0.3166	-0.1139	0.4946	0.0683	0.2368	0.1381	0.4828
13	10.51	0.0	-0.0248	-0.0135	0.0035	0.3051	-0.1543	0.5617	0.0736	0.2572	0.1356	0.4748
14	11.50	0.0	-0.0177	-0.0125	0.0012	0.2780	-0.0063	0.6047	0.0767	0.2568	0.1268	0.4247
15	12.54	0.0	-0.0226	-0.0155	0.0021	0.2750	-0.1053	0.6595	0.0812	0.3190	0.1231	0.4837
16	13.60	0.0	-0.0065	0.0015	-0.0050	-0.1777	0.5824	0.7138	0.0897	0.2984	0.1258	0.4181
17	14.53	0.0	-0.0237	-0.0138	0.0054	0.3760	-0.1582	0.7668	0.0907	0.3284	0.1187	0.4298
18	15.55	0.0	-0.0391	0.0065	-0.0049	-0.0525	0.5424	0.8280	0.0922	0.3357	0.1113	0.4055
19	16.53	0.0	-0.0232	-0.0098	0.0064	0.3151	0.0400	0.8864	0.0912	0.3665	0.1051	0.4244
20	17.55	0.0	0.0019	0.0075	-0.0094	0.1914	-0.0678	0.9456	0.0977	0.3698	0.1033	0.3910
21	18.55	0.0	-0.0223	-0.0102	0.0009	0.1694	-0.0005	0.9905	0.0962	0.3857	0.0971	0.3894
22	19.60	0.0	-0.0304	-0.0145	0.0055	0.3491	-0.1508	1.0422	0.0981	0.4009	0.0942	0.3847

AEDC ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)

PAGE 1 OF 3

SHEET 1 OF 1

MANTIS MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RE/L-A	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2	32	0.59	1.3	0.0	53.0F15	0.0	0	0	0	0	FIXED

POINT	ALPHA	BETA	CN	CLN	CY	CLN	CLL	CA	CAB	CAF	ACP
1	-1.68	0.0	-[illegible]	[illegible]	-0.0338	0.0175	0.0005	0.2954	0.1097	0.1857	-1.2538
2	-0.63	0.0	-0.[illegible]	0.[illegible]	-0.0330	0.0278	-0.0001	0.3004	0.0800	0.2704	-1.0587
3	0.39	0.0	[illegible]	[illegible]	-0.0327	0.0259	0.0003	0.3024	0.0963	0.2082	-1.2936
4	1.39	0.0	0.1991	-0.[illegible]	-0.0288	0.0164	0.0034	0.2949	0.0962	0.2037	-1.2746
5	2.43	0.0	0.2913	-0.[illegible]	-0.0311	0.0231	0.0037	0.2983	0.0988	0.1975	-1.3598
6	3.44	0.0	0.4021	-0.[illegible]	-0.0325	0.0264	0.0029	0.2954	0.1019	0.1965	-1.4987
7	4.42	0.0	0.5571	-0.[illegible]	-0.0223	0.0145	0.0062	0.2944	0.0979	0.1964	-1.5860
8	5.44	0.0	[illegible]	-1.[illegible]	-0.0284	0.0195	0.0047	0.2953	0.0997	0.1895	-1.6571
9	6.50	0.0	[illegible]	-1.[illegible]	-0.0283	0.0245	0.0037	0.2981	0.1078	0.1903	-1.7432
10	7.44	0.0	0.9567	-1.7306	-0.0271	0.0184	0.0054	0.3005	0.1134	0.1670	-1.7975
11	8.46	0.0	1.1073	-2.1441	-0.0226	0.0085	0.0056	0.2994	0.1115	0.1880	-1.8427
12	9.50	0.0	1.2671	-2.5861	-0.0173	-0.0043	0.0099	0.2995	0.1208	0.1787	-1.8572
13	10.47	0.0	1.[illegible]	-2.[illegible]	-0.0161	-0.0032	0.0086	0.3025	0.1277	0.1748	-1.8960
14	11.49	0.0	1.[illegible]	-3.[illegible]	-0.0169	-0.0041	0.0054	0.3014	0.1342	0.1672	-1.9056
15	12.52	0.0	1.[illegible]	-3.[illegible]	-0.0157	-0.0118	0.0057	0.3007	0.1382	0.1625	-1.9073
16	13.50	0.0	1.[illegible]	-3.7615	-0.0127	-0.0172	0.0057	0.2977	0.1453	0.1524	-1.9206
17	14.54	0.0	2.[illegible]	-4.[illegible]	-0.0062	-0.0358	0.0045	0.2927	0.1484	0.1442	-1.9130
18	15.54	0.0	2.2243	-4.4034	-0.0067	-0.0474	0.0056	0.2882	0.1513	0.1369	-1.8965
19	16.61	0.0	2.[illegible]	-4.[illegible]	-0.[illegible]	-0.0342	0.0126	0.[illegible]	0.1591	0.1330	-1.8858
20	17.60	0.0	2.7233	-5.[illegible]	-0.0069	-0.0396	0.0040	0.2860	0.1633	0.1267	-1.8793
21	18.58	0.0	2.9[illegible]	-5.[illegible]	0.0073	-0.0555	0.0109	0.2863	0.1782	0.1060	-1.8709
22	19.60	0.0	3.[illegible]	-5.[illegible]	0.0134	-0.0636	0.0127	0.2858	0.1877	0.0981	-1.8565

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 2 OF 3
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RE/FT	PHI	CONE	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2	3P	0.59	1.3	0.0	03.0P15	0.0	0	0	0	0	FIXED

POINT	ALPHA	BETA	CNF1	CM1	CN1	XCPF1	YCPF1	CNF2	CM2	CA2	XCPF2	YCPF2
1	-1.45	0.0	-0.0125	-0.0043	-0.0147	0.0227	1.1514	-0.0046	-0.0094	-0.0265	0.2216	0.6485
2	-0.43	0.0	-0.0141	-0.0016	-0.0118	0.0815	1.7314	-0.0143	-0.0076	-0.0142	0.5279	0.9930
3	0.47	0.0	-0.0172	-0.0011	-0.0129	-0.1521	1.7808	0.0234	0.0008	0.0029	0.0274	0.1242
4	1.39	0.0	-0.0121	0.0004	-0.0117	-0.0345	1.1558	0.0541	0.0053	0.0146	0.0985	0.2697
5	2.43	0.0	-0.0125	-0.0003	-0.0083	0.2225	0.6408	0.1085	0.0185	0.0279	0.1549	0.2617
6	3.44	0.0	-0.0139	-0.0019	0.0018	0.0416	-0.1004	0.1558	0.0241	0.0458	0.1545	0.2939
7	4.46	0.0	-0.0153	-0.0034	-0.0013	0.0686	0.0675	0.1966	0.0246	0.0730	0.1423	0.3113
8	5.44	0.0	-0.0144	0.0004	-0.0140	-0.0394	1.0135	0.2540	0.0348	0.0957	0.1368	0.3706
9	6.50	0.0	-0.0162	0.0018	-0.0128	-0.0203	0.6527	0.3177	0.0420	0.1245	0.1322	0.3818
10	7.44	0.0	-0.0129	-0.0003	0.0005	0.0725	-0.0387	0.3775	0.0506	0.1443	0.1339	0.3823
11	8.46	0.0	-0.0115	0.0024	-0.0160	-1.0715	4.6335	0.4354	0.0574	0.1585	0.1319	0.3596
12	9.54	0.0	-0.0090	-0.0001	-0.0098	0.0056	1.0916	0.4947	0.0626	0.1905	0.1266	0.3852
13	10.47	0.0	-0.0096	-0.0001	-0.0102	0.0056	1.5635	0.5591	0.0673	0.2080	0.1203	0.3720
14	11.49	0.0	-0.0178	-0.0021	-0.0176	0.1143	0.9662	0.6157	0.0723	0.2317	0.1174	0.3763
15	12.52	0.0	-0.0075	-0.0005	-0.0108	-0.0618	1.8813	0.6777	0.0787	0.2528	0.1162	0.3730
16	13.50	0.0	-0.0176	-0.0021	-0.0064	0.1140	0.4913	0.7326	0.0812	0.2753	0.1108	0.3758
17	14.54	0.0	-0.0056	0.0002	-0.0083	-0.0356	0.0538	0.7826	0.0825	0.3009	0.1054	0.3845
18	15.54	0.0	-0.0137	-0.0012	-0.0092	0.1042	0.8397	0.8393	0.0890	0.3152	0.1060	0.3756
19	16.51	0.0	-0.0107	-0.0015	-0.0085	1.4777	-5.9136	0.9096	0.0884	0.3250	0.1045	0.3573
20	17.60	0.0	-0.0144	-0.0003	-0.0089	0.0424	0.7332	0.9628	0.0845	0.3450	0.1023	0.3503
21	18.56	0.0	-0.0121	-0.0017	-0.0155	0.0615	1.2871	0.9387	0.0857	0.3605	0.0959	0.3618
22	19.60	0.0	0.0126	0.0044	-0.0070	0.3483	-0.5549	1.0339	0.0957	0.3641	0.0925	0.3522

PART: MISSILE TAIL EFFECTS DATA

TEST PART MACH NO. PHI ZONE L DEL1 DEL2 DEL3 DELA TRANSITION
P .32 0.6V 1.3 0.0 03+0P15 0.0 0 0 0 0 FIXED

POINT	ALPHA	BETA	CNF3	CM3	CP3	XCPF3	YCPF3	CNF4	CM4	CA4	XCPF4	YCPF4
1	-1.[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-0.1830	-0.0385	-0.0039	-0.0337	0.1079	0.9232
2	-0.83	0.0	[illegible]	[illegible]	[illegible]	0.6606	-0.2722	-0.0194	-0.0008	-0.0082	0.0392	0.4217
3	0.39	0.0	[illegible]	[illegible]	[illegible]	[illegible]	-0.3805	0.0357	0.0107	-0.0025	0.3001	-0.0688
4	1.39	0.0	[illegible]	[illegible]	[illegible]	0.3912	-0.2527	0.0715	0.0172	0.0104	0.2406	0.1451
5	2.43	0.0	[illegible]	[illegible]	[illegible]	[illegible]	-0.2525	0.1082	0.0220	0.0329	0.1889	0.3036
6	3.44	0.0	[illegible]	[illegible]	[illegible]	0.5029	-0.2937	0.1387	0.0243	0.0615	0.1755	0.4436
7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-0.3104	0.2232	0.0366	0.0782	0.1695	0.3867
8	5.40	0.0	[illegible]	[illegible]	[illegible]	0.3401	-0.1475	0.2569	0.0402	0.1056	0.1566	0.4111
9	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-0.2511	0.3313	0.0523	0.1416	0.1577	0.4274
10	7.44	0.0	[illegible]	[illegible]	[illegible]	0.3452	-0.1344	0.3747	0.0554	0.1588	0.1460	0.4181
11	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.3944	-0.2013	0.4377	0.0623	0.2029	0.1426	0.4636
12	9.54	0.0	[illegible]	[illegible]	[illegible]	0.3731	-0.1350	0.4979	0.0656	0.2379	0.1317	0.4779
13	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-0.2516	0.5683	0.0709	0.2585	0.1293	0.4715
14	11.49	0.0	[illegible]	[illegible]	[illegible]	0.2997	-0.0963	0.6089	0.0744	0.2667	0.1221	0.4282
15	12.52	0.0	[illegible]	[illegible]	[illegible]	0.3472	-0.1817	0.6622	0.0773	0.3154	0.1167	0.4763
16	13.56	0.0	[illegible]	[illegible]	[illegible]	0.1476	0.0058	0.7183	0.0846	0.3584	0.1175	0.4293
17	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-0.2272	0.7690	0.0870	0.3313	0.1131	0.4308
18	15.58	0.0	[illegible]	[illegible]	[illegible]	0.3471	-0.1964	0.8301	0.0908	0.3411	0.1094	0.4109
19	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-0.0943	0.8829	0.0914	0.3755	0.1036	0.4253
20	17.60	0.0	[illegible]	[illegible]	[illegible]	0.3584	-0.1749	0.9491	0.0983	0.3767	0.1036	0.3969
21	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-0.1887	0.9891	0.0957	0.3931	0.0968	0.3974
22	19.60	0.0	[illegible]	[illegible]	[illegible]	0.3780	-0.1718	1.0340	0.0968	0.4050	0.0936	0.3917

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)

PAGE 1 OF 3
SHEET 1 OF 1

HASTY MISSILE TAIL EFFECTS DATA

TEST	ART	MACH	REYN-B	PHI	CONF	L	DEL1	DEL2	DEL3	DELA	TRANSITION
2	33	0.59	3.0	0.0	d3e0F15	0.0	0	0	0	0	FIXED

POINT	ALP-A	BETA	CN	CLN	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-1.63	0.0	-0.1181	-0.1787	-0.0035	-0.0050	-0.0016	0.2567	0.1022	0.1545	-1.5024
2	-0.62	0.0	-0.0696	-0.0967	-0.0011	-0.0091	-0.0017	0.2605	0.1030	0.1575	-2.0754
3	0.39	0.0	0.0756	-0.0872	-0.0061	-0.0060	-0.0027	0.2572	0.1017	0.1556	-1.1636
4	1.40	0.0	0.1913	-0.2527	-0.0060	-0.0130	-0.0003	0.2585	0.1045	0.1540	-1.3181
5	2.46	0.0	0.2870	-0.4037	-0.0026	-0.0036	-0.0046	0.2589	0.1069	0.1481	-1.4026
6	3.49	0.0	0.4194	-0.6251	-0.0031	-0.0048	0.0010	0.2556	0.1072	0.1484	-1.5100
7	4.50	0.0	0.5321	-0.8052	-0.0018	-0.0032	0.0029	0.2574	0.1083	0.1497	-1.5961
8	5.51	0.0	0.6790	-1.0391	0.0023	-0.0044	0.0013	0.2595	0.1114	0.1480	-1.6782
9	6.52	0.0	0.8330	-1.2780	0.0033	-0.0013	0.0026	0.2642	0.1177	0.1465	-1.7549
10	7.59	0.0	0.9990	-1.5403	0.0012	-0.0031	0.0015	0.2563	0.1205	0.1458	-1.8104
11	8.61	0.0	1.1618	-1.8085	0.0053	-0.0113	0.0021	0.2665	0.1258	0.1436	-1.8508
12	9.63	0.0	1.3295	-2.0895	0.0112	-0.0214	0.0032	0.2682	0.1292	0.1390	-1.8782
13	10.62	0.0	1.5074	-2.3854	0.0068	-0.0239	0.0036	0.2695	0.1376	0.1318	-1.8966
14	11.70	0.0	1.6944	-3.0731	0.0077	-0.0253	0.0038	0.2661	0.1418	0.1243	-1.9068
15	12.56	0.0	1.8041	-3.0935	0.0059	-0.0137	0.0004	0.2666	0.1511	0.1154	-1.9114
16	13.77	0.0	2.0411	-3.4754	0.0077	-0.0254	0.0040	0.2624	0.1576	0.1048	-1.9105
17	14.81	0.0	2.2529	-3.8478	0.0106	-0.0298	0.0025	0.2588	0.1631	0.0957	-1.8993
18	15.43	0.0	2.4567	-4.2053	0.0159	-0.0434	0.0021	0.2565	0.1661	0.0894	-1.8847
19	16.86	0.0	2.8841	-4.9553	0.0184	-0.0525	0.0023	0.2533	0.1748	0.0761	-1.8687
20	17.89	0.0	3.0883	-5.2719	0.0299	-0.0755	0.0013	0.2552	0.1828	0.0724	-1.8463
21	18.98	0.0	3.3557	-5.7847	0.0016	-0.1018	0.0046	0.2550	0.1939	0.0611	-1.8162
22	20.01	0.0	3.6918	-6.3125	0.0363	-0.1127	0.0105	0.2598	0.2037	0.0561	-1.7963

PARTIAL MISSILE TAIL EFFECTS DATA

TEST PART MACH RAIL-G PHI CONF L DEL1 DEL2 DEL3 DELA TRANSITION
2 3T 0.80 3.0 0.0 H3-0F15 0.0 0 0 0 0 FIXED

POINT	ALPHA	BETA	CNF1	CM1	CA1	XCPF1	YCPF1	CNF2	CM2	CA2	XCPF2	YCPF2
1	-1.03	0.0	-0.0117	-0.0107	-0.020	0.0615	-0.1648	-0.0521	-0.0099	-0.0298	0.1887	0.5788
2	-0.06	0.0	-0.0055	0.0010	-0.0139	-0.0047	0.6746	-0.0125	-0.0035	-0.0157	0.2821	1.2546
3	0.34	0.0	-0.0117	-0.0061	-0.0129	0.0616	0.2455	0.0234	-0.0018	0.0008	0.0770	0.0355
4	1.48	0.0	-0.0047	-0.0002	0.0264	0.0228	-0.0383	0.0613	0.0178	0.0174	0.1273	0.2844
5	2.48	0.0	-0.0035	0.0004	-0.0080	-0.0047	0.0047	0.1018	-0.0168	0.0331	0.1654	0.3256
6	3.49	0.0	-0.0130	-0.0010	-0.0017	0.0745	0.1305	0.1528	0.0228	0.0546	0.1492	0.3572
7	4.50	0.0	-0.0093	-0.0026	-0.0011	0.0618	-0.1125	0.2063	0.0298	0.0769	0.1446	0.3728
8	5.51	0.0	-0.0106	-0.0052	-0.0052	0.0611	0.5283	0.2640	0.0371	0.1034	0.1407	0.3918
9	6.57	0.0	-0.0077	-0.0003	0.0013	0.0376	-0.1671	0.3244	0.0436	0.1314	0.1346	0.4052
10	7.59	0.0	-0.0051	-0.0061	0.0006	0.0148	-0.0777	0.3871	0.0509	0.1570	0.1314	0.4056
11	8.61	0.0	-0.0104	-0.0008	-0.0044	0.0005	0.4462	0.4502	0.0569	0.1830	0.1264	0.4063
12	9.63	0.0	-0.0142	-0.0016	0.0017	0.1157	-0.1299	0.5104	0.0624	0.2093	0.1222	0.4101
13	10.62	0.0	-0.0116	-0.0015	-0.0033	-7.7742	16.4000	0.5763	0.0683	0.2343	0.1182	0.4051
14	11.70	0.0	-0.0154	-0.0013	-0.0004	0.1149	0.0845	0.6457	0.0736	0.2593	0.1143	0.4016
15	12.68	0.0	-0.0186	-0.0038	-0.0030	0.1436	0.2120	0.7159	0.0810	0.2813	0.1133	0.3934
16	13.77	0.0	-0.0113	-0.0011	-0.0065	0.0940	0.5879	0.7834	0.0844	0.3050	0.1077	0.3893
17	14.81	0.0	-0.0116	-0.0012	-0.0051	0.1151	0.4699	0.8442	0.0893	0.3242	0.1058	0.3848
18	15.83	0.0	-0.0105	-0.0008	-0.0005	0.0813	0.8107	0.9074	0.0944	0.3447	0.1040	0.3799
19	16.86	0.0	-0.0137	-0.0004	-0.0041	0.0922	0.4562	0.9556	0.0983	0.3636	0.1008	0.3804
20	17.89	0.0	-0.0135	-0.0014	-0.0022	0.1035	0.1647	1.0155	0.1016	0.3806	0.1001	0.3747
21	18.96	0.0	-0.0082	0.0013	-0.0072	-7.7986	37.6947	1.0658	0.1009	0.3879	0.0965	0.3718
22	20.01	0.0	-0.0052	0.0001	-0.0013	-0.0116	0.2500	1.0956	0.1013	0.3913	0.0925	0.3571

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 3 OF 3
SHEET 1 OF 1

SANTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RNLB	PWI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2	3T	0.59	3.0	0.0	03A0F15	0.0	0	0	0	0	FIXED

POINT	ALPHA	BETA	CNF3	CM3	CA3	XCPF3	YCPF3	CNF4	CM4	CA4	XCPF4	YCPF4
1	-1.63	0.0	-0.0044	-0.0021	0.0016	0.3641	-0.2420	-0.0367	-0.0055	-0.0249	0.1414	0.6444
2	-0.62	0.0	-0.0074	-0.0031	0.0022	0.3944	-0.2753	-0.0069	0.0003	-0.0048	-0.0438	0.6934
3	0.34	0.0	-0.0065	-0.0025	0.0020	0.4038	-0.2840	0.0329	0.0060	0.0085	0.1819	0.2577
4	1.48	0.0	-0.0119	-0.0053	0.0029	0.4494	-0.2411	0.0744	0.0128	0.0264	0.1720	0.3554
5	2.48	0.0	-0.0133	-0.0062	0.0034	0.4656	-0.2557	0.1132	0.0183	0.0466	0.1614	0.4115
6	3.49	0.0	-0.0156	-0.0076	0.0039	0.4804	-0.2666	0.1574	0.0246	0.0727	0.1564	0.4618
7	4.50	0.0	-0.0161	-0.0083	0.0041	0.4838	-0.2706	0.2172	0.0333	0.0969	0.1535	0.4368
8	5.51	0.0	-0.0169	-0.0089	0.0023	0.4867	-0.1541	0.2712	0.0390	0.1236	0.1439	0.4557
9	6.57	0.0	-0.0184	-0.0096	0.0022	0.3917	-0.1529	0.3368	0.0468	0.1584	0.1391	0.4702
10	7.59	0.0	-0.0177	-0.0094	0.0026	0.3792	-0.1493	0.3947	0.0517	0.1837	0.1310	0.4654
11	8.61	0.0	-0.0164	-0.0085	0.0015	0.3713	-0.1003	0.4591	0.0569	0.2208	0.1282	0.4808
12	9.63	0.0	-0.0142	-0.0064	0.0028	0.3740	-0.1526	0.5171	0.0622	0.2497	0.1203	0.4829
13	11.62	0.0	-0.0177	-0.0087	0.0000	0.3696	-0.0459	0.5775	0.0646	0.2727	0.1185	0.4723
14	11.70	0.0	-0.0174	-0.0087	0.0021	0.3577	-0.1108	0.6463	0.0729	0.2916	0.1129	0.4511
15	12.66	0.0	-0.0172	-0.0089	0.0006	0.2915	-0.0372	0.7052	0.0767	0.3267	0.1088	0.4668
16	13.77	0.0	-0.0156	-0.0084	0.0003	0.2591	-0.0173	0.7765	0.0823	0.3362	0.1060	0.4329
17	14.81	0.0	-0.0135	-0.0124	0.0005	0.4041	-0.1607	0.8312	0.0870	0.3630	0.1047	0.4366
18	15.83	0.0	-0.0175	-0.0065	-0.0000	0.2544	0.0006	0.4834	0.0494	0.3738	0.1012	0.4231
19	16.86	0.0	-0.0222	-0.0087	0.0012	0.2567	-0.0519	0.9300	0.0925	0.3938	0.0994	0.4234
20	17.89	0.0	-0.0197	-0.0038	0.0004	0.2137	-0.0360	0.4884	0.0960	0.4026	0.0991	0.4073
21	19.98	0.0	-0.0225	-0.0057	0.0029	0.2521	-0.1279	1.0298	0.0982	0.4122	0.0953	0.4003
22	20.01	0.0	-0.0246	-0.0107	0.0047	0.3609	-0.1596	1.0837	0.0975	0.4292	0.0908	0.3961

MARTIN MISSILE TAIL EFFECTS DATA

TEST PART MACH MACH-C PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION
2 36 0.59 0.3 100.0 63.0F15 0.0 0 0 0 0 FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-1.58	0.00	-0.2424	0.1284	-0.1062	0.1176	0.0282	0.4974	0.0915	0.4066	-1.3588
2	-0.57	0.00	-0.0795	0.0593	-0.1090	0.1012	0.0167	0.4676	0.0484	0.3792	-1.1739
3	0.43	0.00	-0.0550	0.0287	-0.1137	0.0910	0.0210	0.4777	0.0403	0.3874	-1.5537
4	1.44	0.0	0.0554	-0.0175	-0.1025	0.0834	0.0230	0.4628	0.0942	0.3686	-1.9438
5	2.44	0.00	0.1520	-0.0610	-0.1019	0.0900	0.0052	0.4632	0.0915	0.3717	-1.4229
6	3.44	0.0	0.2495	-0.0942	-0.1071	0.0981	0.0301	0.4608	0.0954	0.3655	-1.4829
7	4.42	0.00	0.3439	-0.1201	-0.1061	0.0910	0.0283	0.4501	0.0990	0.3511	-1.6406
8	5.40	0.0	0.5177	-0.1932	-0.0963	0.0892	0.0124	0.4429	0.0963	0.3466	-1.6131
9	6.41	0.00	0.6548	-0.2178	-0.1047	0.0813	0.0257	0.4353	0.0982	0.3370	-1.6616
10	7.43	0.0	0.7866	-0.2963	-0.0974	0.0838	0.0319	0.4301	0.1038	0.3264	-1.7689
11	8.40	0.00	0.9256	-0.3594	-0.1049	0.0909	0.0216	0.4115	0.1126	0.2991	-1.8062
12	9.45	0.0	1.0510	-0.4053	-0.0863	0.0965	0.0194	0.4119	0.1179	0.2941	-1.7837
13	10.43	0.00	1.1870	-0.4642	-0.0880	0.0883	0.0115	0.4045	0.1198	0.2931	-1.8271
14	11.47	0.0	1.3051	-0.4978	-0.0951	0.0944	0.0066	0.4134	0.1291	0.2946	-1.8271
15	12.48	0.00	1.4222	-0.5434	-0.1056	0.0939	0.0184	0.4231	0.1319	0.2912	-1.8022
16	13.45	0.00	1.5711	-0.6131	-0.1041	0.0780	0.0113	0.4124	0.1393	0.2734	-1.8081
17	14.44	0.0	1.7134	-0.6751	-0.0938	0.0787	0.0112	0.4181	0.1486	0.2693	-1.7861
18	15.49	0.0	1.8741	-0.7297	-0.0963	0.0761	-0.0043	0.3952	0.1644	0.2309	-1.8028
19	16.47	0.00	2.0033	-0.7808	-0.1178	0.0532	0.0188	0.4056	0.1686	0.2410	-1.7867
20	17.51	0.0	2.1391	-0.8264	-0.1425	0.0749	0.0186	0.4045	0.1781	0.2263	-1.7596
21	18.49	0.00	3.1944	-0.8207	-0.0862	0.0501	0.0134	0.3956	0.1757	0.2200	-1.7852
22	19.52	0.0	3.3922	-0.8448	-0.0933	0.0707	0.0021	0.4011	0.1852	0.2159	-1.7230

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 2 OF 3
SHEET 1 OF 1
MARTI - MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	ALPHA	PHI	CONF	L	DEL1	DEL2	DEL3	DELA	TRANSITION
7	36	0.64	0.0	180.0	83.0F15	0.0	0	0	0	0	FIXED

POINT	ALPHA	BETA	CNF1	CN1	CBL	YCPF1	YCPF1	CNF2	CN2	CM2	XCPF2	YCPF2
1	-1.56	0.0	-0.0173	-0.0322	0.0144	0.2613	-0.9273	0.0334	0.0027	0.0247	0.0692	0.7547
2	-0.57	0.0	-0.0256	-0.0217	0.0038	0.2346	-0.3781	0.0208	0.0046	0.0369	0.2215	1.6723
3	0.43	0.0	-0.0128	-0.0034	-0.0145	0.2384	1.1347	-0.0011	0.0061	-0.0347	-5.4578	31.1982
4	1.44	0.0	-0.0787	-0.0181	0.0604	0.2345	-1.1340	-0.0525	-0.0090	0.0041	0.1708	-0.0772
5	2.46	0.0	0.0238	0.0081	-0.0157	0.2365	2.6008	-0.0941	-0.0155	-0.0557	0.1648	0.5926
6	3.44	0.0	0.0	0.0	0.0387	0.0	0.0347	-0.1646	-0.0295	-0.0949	0.1789	0.5764
7	4.42	0.0	-0.0721	-0.0241	0.0480	0.2734	-0.6402	-0.1710	-0.0199	-0.0975	0.1165	0.5701
8	5.44	0.0	-0.1342	-0.0353	0.0515	0.2590	-0.3782	-0.2537	-0.0425	-0.1152	0.1676	0.4542
9	6.41	0.0	-0.1434	-0.0341	-0.0534	0.2366	0.8825	-0.3038	-0.0435	-0.1008	0.1435	0.4615
10	7.43	0.0	-0.0539	-0.0151	0.0145	0.2385	-0.2268	-0.3317	-0.0378	-0.1329	0.1142	0.4087
11	8.46	0.0	0.0	0.0	-0.0677	0.0	-0.0677	-0.4229	-0.0564	-0.1439	0.1334	0.3602
12	9.45	0.0	-0.1206	-0.0240	-0.0017	0.3425	0.0833	-0.4644	-0.0424	-0.1742	0.1343	0.3750
13	10.43	0.0	-0.2426	-0.0418	0.0451	0.3425	-0.5665	-0.5282	-0.0726	-0.1675	0.1345	0.3576
14	11.47	0.0	0.0	0.0	0.0	0.0	0.0	-0.5612	-0.0693	-0.2160	0.1235	0.3849
15	12.48	0.0	-0.0691	-0.0211	0.0201	0.2366	-0.2701	-0.5901	-0.0675	-0.2092	0.1143	0.3546
16	13.45	0.0	0.0254	0.0069	0.0	0.2364	0.0	-0.6785	-0.0872	-0.2191	0.1284	0.3228
17	14.49	0.0	0.0234	0.0081	0.0192	0.2364	1.7568	-0.6921	-0.0710	-0.2605	0.1026	0.4056
18	15.49	0.0	-0.0206	-0.0063	0.0271	0.3424	-1.3009	-0.7620	-0.0856	-0.2549	0.1124	0.3345
19	16.47	0.0	0.0	0.0	-0.0204	0.0	-0.0204	-0.8242	-0.0673	-0.2632	0.1049	0.3174
20	17.51	0.0	-0.0714	-0.0201	0.0465	0.2749	-0.6401	-0.8765	-0.0588	-0.3223	0.1016	0.3686
21	18.49	0.0	-0.0172	-0.0061	-0.0065	1.0546	-0.3781	-0.8850	-0.1060	-0.3429	0.0972	0.3874
22	19.52	0.0	0.0061	0.0049	-0.0509	0.0049	-0.3127	-0.9115	-0.0797	-0.3318	0.0875	0.3640

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	9X10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2	36	0.59	0.3	180.0	B3=0F15	0.0	0	0	0	0	FIXED

POINT	ALPHA	BETA	CNF3	CM3	CH3	XCPF3	YCPF3	CNF4	CH4	CB4	XCPF4	YCPF4
1	-1.58	0.0	-0.0152	-0.0149	0.0058	1.2652	-0.3801	0.0728	0.0253	0.0204	0.3470	0.2809
2	-0.57	0.0	-0.0179	-0.0226	0.0165	1.2613	-0.9223	0.0357	0.0171	0.0056	0.4771	0.1573
3	0.43	0.0	0.0755	0.0350	-0.0191	0.5133	-0.2517	0.0067	0.0137	-0.0217	2.0551	-3.2677
4	1.44	0.0	-0.0334	-0.0292	0.0224	0.8750	-0.6709	-0.0426	0.0028	-0.0319	-0.0662	0.7494
5	2.44	0.0	-0.0145	-0.0106	0.0172	0.8617	-0.8786	-0.0796	-0.0053	-0.0564	0.0672	0.7087
6	3.44	0.0	0.0591	0.0321	-0.0127	0.5427	-0.2149	-0.1756	-0.0094	-0.0871	0.0748	0.6936
7	4.42	0.0	-0.0316	-0.0426	0.0243	0.8263	-0.5683	-0.1667	-0.0155	-0.1008	0.0927	0.6888
8	5.44	0.0	-0.0548	-0.0617	0.0456	0.8562	-0.4634	-0.2253	-0.0223	-0.1166	0.0988	0.5175
9	6.41	0.0	-0.0043	-0.0112	0.0124	1.3451	-1.5581	-0.2598	-0.0236	-0.1528	0.0910	0.5868
10	7.43	0.0	0.0296	0.0008	-0.0016	0.2296	-0.0535	-0.3264	-0.0350	-0.1843	0.1080	0.5679
11	8.45	0.0	0.0083	-0.0034	-0.0223	0.5215	-0.2645	-0.3793	-0.0349	-0.1642	0.0921	0.3802
12	9.45	0.0	-0.0377	-0.0271	0.0240	0.7191	-0.6372	-0.4399	-0.0484	-0.2261	0.1101	0.5148
13	10.43	0.0	0.0573	0.0387	-0.0121	0.6044	-0.2106	-0.4980	-0.0552	-0.2328	0.1108	0.4675
14	11.47	0.0	-0.0496	-0.0396	0.0185	0.7971	-0.3798	-0.5427	-0.0591	-0.2533	0.1089	0.4667
15	12.46	0.0	0.0616	-0.0058	-0.0006	-3.6499	-0.3797	-0.5684	-0.0556	-0.2818	0.0979	0.4958
16	13.45	0.0	-0.0362	-0.0236	0.0137	0.6523	-0.3797	-0.6252	-0.0622	-0.2593	0.0995	0.4148
17	14.49	0.0	-0.0611	-0.0467	0.0232	0.7343	-0.3799	-0.6164	-0.0330	-0.2244	0.0535	0.3641
18	15.49	0.0	0.0481	0.0254	-0.0175	0.5417	-0.3799	-0.7266	-0.0663	-0.3174	0.0912	0.4368
19	16.47	0.0	-0.0253	-0.0114	0.0138	0.4726	-0.3800	-0.7491	-0.0709	-0.3416	0.0898	0.4329
20	17.51	0.0	0.0505	0.0234	-0.0142	0.4724	-0.3799	-0.7995	-0.0469	-0.3772	0.0837	0.4718
21	18.49	0.0	0.0056	0.0013	-0.0021	0.2362	-0.3797	-0.8555	-0.0711	-0.3793	0.0831	0.4434
22	19.52	0.0	0.0161	0.0002	-0.0054	0.0135	-0.3796	-0.9420	-0.0811	-0.3370	0.0861	0.3577

ARNOLD ENGINEERING DEVELOPMENT CENTER(ARDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RNLMB	PHI	CONE	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2	37	0.60	0.0	180.0	8.0E+15	0.0	0	0	0	0	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	ACP
1	-1.58	0.0	-0.1546	0.0163	-0.0707	0.0567	0.0372	0.4146	0.0755	0.3354	-1.1991
2	-0.58	0.0	-0.0787	0.0109	-0.0849	0.0440	0.0037	0.4040	0.0732	0.3268	-1.1496
3	0.42	0.0	0.0290	-0.0064	-0.0760	0.0865	0.0062	0.4108	0.0836	0.3202	-2.3518
4	1.42	0.0	0.1466	-0.0267	-0.0705	0.0942	0.0107	0.4002	0.0941	0.3061	-1.7237
5	2.48	0.0	0.2582	-0.0404	-0.0604	0.0534	0.0051	0.4048	0.0931	0.3057	-1.5168
6	3.44	0.0	0.3572	-0.0523	-0.0760	0.0740	-0.0013	0.3860	0.0968	0.2913	-1.5162
7	4.43	0.0	0.4574	-0.0635	-0.0721	0.0655	0.0060	0.3922	0.0983	0.2938	-1.5093
8	5.47	0.0	0.5636	-0.0747	-0.0797	0.0669	0.0046	0.3891	0.0985	0.2906	-1.6512
9	6.48	0.0	0.6701	-0.0832	-0.0754	0.0715	0.0041	0.3908	0.1021	0.2887	-1.6912
10	7.46	0.0	0.7734	-0.0942	-0.0731	0.0516	-0.0011	0.3911	0.1060	0.2851	-1.7372
11	8.47	0.0	0.8863	-0.1021	-0.0684	0.0496	0.0106	0.3875	0.1123	0.2756	-1.7879
12	9.46	0.0	0.9909	-0.1103	-0.0719	0.0494	-0.0021	0.3592	0.1175	0.2417	-1.6280
13	10.45	0.0	1.0918	-0.1182	-0.0711	0.0377	-0.0020	0.3497	0.1293	0.2264	-1.8368
14	11.47	0.0	1.1991	-0.1274	-0.0707	0.0436	0.0055	0.3476	0.1313	0.2153	-1.8669
15	12.49	0.0	1.3087	-0.1363	-0.0730	0.0550	-0.0036	0.3425	0.1337	0.2086	-1.8864
16	13.50	0.0	1.4141	-0.1472	-0.0692	0.0425	0.0019	0.3487	0.1390	0.2097	-1.8730
17	14.49	0.0	1.5171	-0.1566	-0.0671	0.0403	-0.0056	0.3508	0.1484	0.2024	-1.8850
18	15.49	0.0	1.6154	-0.1670	-0.0789	0.0473	-0.0025	0.3562	0.1597	0.1965	-1.8777
19	16.50	0.0	1.7143	-0.1768	-0.0648	0.0383	-0.0040	0.3541	0.1726	0.1815	-1.8726
20	17.49	0.0	1.8147	-0.1877	-0.0613	0.0297	-0.0075	0.3501	0.1436	0.1665	-1.8573
21	18.53	0.0	1.9172	-0.1980	-0.0638	0.0306	-0.0141	0.3552	0.1900	0.1652	-1.8381
22	19.52	0.0	2.0152	-0.2079	-0.0597	0.0275	-0.0055	0.3602	0.1956	0.1533	-1.7941

MARTIN MISSILE TAIL EFFECTS DATA

TEST PART MACH AXIS ENT CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION
2 37 0.59 0.4 100.0 03-0F15 0.0 0 0 0 0 FIXED

POINT	ALPHA	BETA	CNF1	CN1	CA1	XCPF1	YCPF1	CNF2	CM2	CA2	XCPF2	YCPF2
1	-1.58	0.0	-0.0012	-0.0145	0.0064	0.2365	-1.1341	0.0498	0.0064	0.0169	0.1292	0.3412
2	-0.56	0.0	-0.0044	-0.0226	0.0252	0.2613	-0.2997	0.0428	0.0099	-0.0083	0.2319	-0.1943
3	0.42	0.0	-0.0087	-0.0321	0.0433	0.2371	-0.3767	0.0036	0.0028	-0.0297	0.7915	-0.3017
4	1.42	0.0	-0.0023	-0.0124	0.0527	0.2365	-1.0074	-0.0592	-0.0102	-0.0782	0.1717	0.4757
5	2.42	0.0	-0.0381	-0.0264	-0.0252	0.1819	0.6621	-0.0903	-0.0162	-0.0816	0.1583	0.6849
6	3.44	0.0	-0.0467	-0.0393	0.0703	0.1921	-1.5057	-0.1447	-0.0259	-0.0618	0.1729	0.5055
7	4.43	0.0	-0.0780	-0.0186	0.0824	0.2365	-0.5461	-0.1782	-0.0236	-0.0483	0.1322	0.4966
8	5.47	0.0	-0.1018	-0.0282	0.0385	0.2371	-0.3782	-0.2561	-0.0346	-0.0982	0.1548	0.3833
9	6.46	0.0	-0.0832	-0.0108	-0.0106	0.2365	-0.3781	-0.3231	-0.0501	-0.1329	0.1551	0.4113
10	7.46	0.0	-0.1140	-0.0270	0.0365	0.2346	-0.3199	-0.3573	-0.0495	-0.1527	0.1384	0.4275
11	8.47	0.0	-0.0557	-0.0111	-0.0253	0.1991	0.4540	-0.4186	-0.0551	-0.1759	0.1317	0.4204
12	9.44	0.0	0.0231	0.0075	-0.0614	0.3265	-1.8129	-0.4901	-0.0676	-0.1909	0.1379	0.3695
13	10.45	0.0	0.0316	0.0346	-0.0278	0.3022	-0.8047	-0.5620	-0.0792	-0.2166	0.1409	0.3854
14	11.47	0.0	0.0143	0.0054	-0.0654	0.3473	-0.3783	-0.5917	-0.0716	-0.2439	0.1199	0.4121
15	12.49	0.0	-0.0353	-0.0273	0.0012	0.1820	-0.0314	-0.6367	-0.0778	-0.2688	0.1222	0.4222
16	13.50	0.0	0.0405	0.0117	-0.0550	0.2560	-1.3574	-0.6857	-0.0796	-0.2925	0.1164	0.4265
17	14.49	0.0	-0.0471	-0.0094	0.1112	0.1921	-0.2371	-0.7269	-0.0812	-0.2943	0.1118	0.4049
18	15.49	0.0	0.0231	0.0079	0.0045	0.3265	0.1955	-0.7794	-0.0852	-0.3251	0.1092	0.4170
19	16.50	0.0	-0.0504	-0.0112	0.0012	0.1951	-0.0214	-0.8325	-0.1661	-0.3310	0.1036	0.3975
20	17.49	0.0	-0.0526	-0.0125	0.0065	0.2346	-0.8820	-0.8942	-0.0937	-0.3477	0.1048	0.3888
21	18.53	0.0	0.0175	0.0041	-0.0397	0.2363	-2.2697	-0.9373	-0.0973	-0.3592	0.1038	0.3832
22	19.52	0.0	-0.0032	0.0013	0.0078	-0.0291	-2.4637	-0.9697	-0.0942	-0.3568	0.0971	0.3679

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 3 OF 3
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	REYNOLDS	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2	37	0.59	0.0	180.0	83.0F15	0.0	0	0	0	0	FIXED

POINT	ALPHA	BETA	CNF4	CM3	CB3	XCPF3	YCPF3	CNF4	CM4	CB4	XCPF4	YCPF4
1	-1.58	0.0	-0.0007	-0.0162	0.0065	1.35.0	-1.2633	0.0750	0.0224	0.0175	0.3046	0.2334
2	-0.56	0.0	0.1104	0.0127	0.0211	0.0852	0.0756	0.0244	0.0117	0.0038	0.6772	0.1572
3	0.02	0.0	0.0036	0.0023	-0.0049	0.3130	-0.3749	0.0048	0.0090	-0.0215	2.0574	-0.7143
4	1.02	0.0	-0.1181	-0.1163	0.0127	1.0137	-0.7929	-0.0351	0.0047	-0.0341	-0.1346	1.1122
5	2.49	0.0	-0.2007	-0.1859	0.0185	0.7511	-0.6255	-0.0826	-0.0078	-0.0560	0.0946	0.6539
6	3.04	0.0	0.0050	0.0056	-0.0264	.0433	-0.3049	-0.1221	-0.0124	-0.0847	0.1015	0.6938
7	4.03	0.0	-0.1063	-0.1163	0.0218	0.6013	-0.3852	-0.1759	-0.0222	-0.0974	0.1260	0.5538
8	5.07	0.0	-0.2056	-0.2052	0.0205	0.6979	-0.5626	-0.2274	-0.0273	-0.1175	0.1199	0.5167
9	6.06	0.0	-0.3163	-0.3122	0.0169	0.7468	-0.7585	-0.2764	-0.0338	-0.1456	0.1224	0.5268
10	7.06	0.0	-0.4174	-0.4062	-0.0164	0.8728	-0.3830	-0.3332	-0.0422	-0.1702	0.1266	0.5108
11	8.07	0.0	-0.5252	-0.5128	-0.0193	0.8728	-0.3798	-0.3898	-0.0483	-0.1545	0.1137	0.3964
12	9.04	0.0	-0.6167	-0.6037	-0.0229	0.5440	-0.3836	-0.4603	-0.0576	-0.2199	0.1256	0.4777
13	10.05	0.0	-0.7124	-0.6997	-0.0211	0.2305	-0.3816	-0.5147	-0.0615	-0.2518	0.1194	0.4893
14	11.07	0.0	-0.8116	-0.7984	0.0119	0.7416	-0.3799	-0.5606	-0.0632	-0.2738	0.1128	0.4885
15	12.09	0.0	-0.9082	-0.8942	0.0165	0.6598	-0.3830	-0.6167	-0.0671	-0.2934	0.1088	0.4759
16	13.50	0.0	-1.0162	-0.9980	0.0069	0.8930	-0.3800	-0.6549	-0.0453	-0.2966	0.0998	0.4529
17	14.09	0.0	-0.9113	-0.8981	-0.0086	0.3504	-0.3787	-0.6744	-0.0525	-0.2589	0.0778	0.3839
18	15.09	0.0	-0.8113	-0.8117	-0.0054	0.8147	-0.3800	-0.7508	-0.0738	-0.3405	0.0983	0.4536
19	16.51	0.0	-0.9111	-0.9145	0.0113	0.8344	-0.3748	-0.8295	-0.0802	-0.3603	0.0967	0.4343
20	17.49	0.0	-1.0119	-0.0101	0.0134	-0.0146	-0.3814	-0.8804	-0.0767	-0.3472	0.0891	0.4498
21	18.53	0.0	-0.9111	-0.9234	0.0064	-3.5466	-0.3832	-0.9136	-0.0782	-0.3946	0.0866	0.4367
22	19.52	0.0	-0.8143	-0.8064	-0.0063	0.4536	0.3450	-0.9652	-0.0837	-0.3768	0.0867	0.3904

MARTIN MISSILE TAIL EFFECTS DATA

TEST PART	MACH	PALO-5	PHI	CONF	L	DEL1	DEL2	DEL3	DELA	TRANSITION
2	3M	0.5#	0.7	180.0	83.0F15	0.0	0	0	0	0	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAF	CAF	ACP
1	-1.5#	0.#	-0.1#2#	0.2#6#	+0.0#35	0.0#2#	-0.0071	0.3#15	0.1157	0.2258	-1.5761
2	-0.5#	0.0	-0.0#77	0.0#44	-0.0#3#5	0.0233	-0.0040	0.3391	0.1136	0.2255	-1.4623
3	0.41	0.0	0.0781	-0.1#87	-0.0#62	0.0253	-0.003#	0.3423	0.1081	0.2362	-1.3925
4	1.44	0.0	0.1554	-0.2220	-0.0#78	0.0316	-0.0032	0.3460	0.1059	0.2401	-1.3958
5	2.46	0.0	0.2574	-0.3#4#	-0.0343	0.0147	-0.0026	0.3444	0.1018	0.2426	-1.4152
6	3.46	0.0	0.3576	-0.5269	-0.0561	0.0#c8	-0.0051	0.3352	0.0962	0.2391	-1.4733
7	4.45	0.0	0.5043	-0.7#142	-0.0#57	0.0479	-0.0006	0.333#	0.0366	0.2370	-1.6142
8	5.46	0.0	0.6#75	-1.0#2#	-0.0#35	0.0273	-0.005#	0.3377	0.1005	0.2372	-1.6577
9	6.46	0.0	0.7#4#	-1.1#65	-0.03#8	0.02#6	-0.0012	0.3379	0.1030	0.2349	-1.7524
10	7.46	0.0	0.9#4#	-1.2285	-0.037#	0.0316	-0.0025	0.3361	0.1090	0.2291	-1.7825
11	8.47	0.0	1.1#41	-2.#22#	-0.0#56	0.0375	-0.0026	0.3358	0.1150	0.2208	-1.8235
12	9.47	0.0	1.2541	-2.3232	-0.0422	0.0299	0.0000	0.3365	0.1216	0.2149	-1.8541
13	10.47	0.0	1.4222	-2.5#61	-0.0#2#	0.0#3#	-0.0065	0.3384	0.1276	0.2113	-1.8593
14	11.47	0.0	1.5721	-2.7#05	-0.041#	0.0332	-0.0076	0.3389	0.1337	0.2052	-1.8834
15	12.46	0.0	1.7541	-3.#2#4	-0.043#	0.0243	-0.0042	0.3381	0.1375	0.1967	-1.8974
16	13.51	0.0	1.9#62	-3.3616	-0.0415	0.0217	-0.0063	0.3165	0.1432	0.1733	-1.9127
17	14.45	0.0	2.1393	-3.5#73	-0.0#2#	0.0273	-0.0086	0.3150	0.1445	0.1605	-1.9305
18	15.50	0.0	2.1514	-#.1783	-0.0376	0.0061	-0.0086	0.3034	0.1529	0.1506	-1.9421
19	16.#3	0.0	2.3#1#	-#.#1#1	-0.#2#3	0.0056	-0.#200	0.310#	0.1621	0.1443	-1.9540
20	17.55	0.0	2.5#05	-5.#2#1	-0.0319	0.0110	-0.0312	0.3139	0.1744	0.1389	-1.9485
21	18.52	0.0	2.7742	-5.3#35	-0.0335	0.0#0#	-0.0#07	0.3179	0.1822	0.1357	-1.9348
22	19.53	0.0	3.0701	-5.#475	-0.0142	-0.0090	-0.0378	0.3154	0.1916	0.1238	-1.9177

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 2 OF 3
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RXI0M6	RNI	CONE	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2	3R	0.59	0.7	100.0	30.0415	0.0	0	0	0	0	FIXED

POINT	ALPHA	BETA	CNF1	CM1	CN1	XCPF1	YCPF1	CNF2	CM2	CN2	XCPF2	YCPF2
1	-1.52	0.0	-0.0567	-0.0113	0.0455	0.2366	-0.6317	0.0617	0.0068	0.0034	0.1106	0.0544
2	-0.50	0.0	-0.0511	-0.0104	0.0193	0.2111	-0.3741	0.0292	0.0055	-0.0003	0.1874	-0.0086
3	0.41	0.0	-0.0149	-0.0034	0.0015	0.0816	-0.1007	-0.0210	-0.0041	-0.0311	0.1964	1.4798
4	1.44	0.0	-0.0462	-0.0082	0.0354	0.2042	-0.8916	-0.0604	-0.0114	-0.0283	0.1886	0.4683
5	2.44	0.0	-0.0344	-0.0062	0.0139	0.2043	-0.3609	-0.0441	-0.0137	-0.0621	0.1556	0.7049
6	3.46	0.0	-0.0142	-0.0030	0.0110	0.1459	-0.6026	-0.1582	-0.0284	-0.0679	0.1797	0.4288
7	4.45	0.0	-0.0533	-0.0119	0.0415	0.2139	-0.7428	-0.1489	-0.0255	-0.1018	0.1352	0.5390
8	5.48	0.0	-0.0455	-0.0098	0.0131	0.2140	-0.2874	-0.2522	-0.0375	-0.1142	0.1485	0.4529
9	6.48	0.0	-0.0316	-0.0067	0.0117	0.1533	-0.3781	-0.3232	-0.0493	-0.1438	0.1525	0.4448
10	7.48	0.0	-0.0746	-0.0159	-0.0088	0.2017	0.1170	-0.3681	-0.0506	-0.1499	0.1373	0.4073
11	8.47	0.0	-0.0257	-0.0035	-0.0164	0.1355	0.4220	-0.4272	-0.0594	-0.1864	0.1391	0.4363
12	9.47	0.0	-0.0331	-0.0039	0.0044	0.1149	-0.2540	-0.4634	-0.0654	-0.2153	0.1352	0.4449
13	10.45	0.0	-0.0242	-0.0022	0.0013	0.1047	-0.4867	-0.5273	-0.0674	-0.2342	0.1277	0.4442
14	11.47	0.0	-0.0284	-0.0041	-0.0041	0.1456	0.1941	-0.5944	-0.0746	-0.2504	0.1254	0.4213
15	12.46	0.0	-0.0424	-0.0074	0.0036	0.1768	-0.0845	-0.6435	-0.0733	-0.2849	0.1138	0.4508
16	13.51	0.0	-0.0496	-0.0090	0.0077	-0.0193	-0.8163	-0.7292	-0.0946	-0.2942	0.1188	0.4034
17	14.46	0.0	-0.0313	-0.0063	-0.0083	0.1534	0.2825	-0.7870	-0.0897	-0.3226	0.1140	0.4188
18	15.50	0.0	-0.0350	-0.0071	0.0060	0.1962	-0.9722	-0.8462	-0.0957	-0.3379	0.1130	0.3993
19	16.49	0.0	-0.0229	-0.0046	0.0005	0.0815	-0.3783	-0.9034	-0.0972	-0.3455	0.1076	0.3825
20	17.55	0.0	-0.0370	-0.0081	0.0031	0.1456	-1.1648	-0.9432	-0.0978	-0.3659	0.1037	0.3879
21	18.52	0.0	-0.0376	-0.0081	0.0063	0.1456	-0.2656	-0.9721	-0.0965	-0.3615	0.0993	0.3719
22	19.53	0.0	-0.0050	0.0025	0.0023	-0.4195	-0.3790	-1.0188	-0.0946	-0.3775	0.0928	0.3706

MARTIN MISSILE TAIL EFFECTS DATA

TEST PART MACH ALPHA PHI C.MR L DEL1 DEL2 DEL3 DEL4 TRANSITION
2 3P 0.5P 0.7 180.0 M3.0F15 0.0 0 0 0 0 FIXED

POINT	ALPHA	BETA	CNF3	CM3	CA3	XCPF3	YCPF3	CNF4	CM4	CA4	XCPF4	YCPF4
1	-1.5P	0.0	-0.0113	-0.0103	0.0063	0.9255	-0.3802	0.0659	0.0181	0.0146	0.2582	0.2082
2	-0.5P	0.0	-0.0094	-0.0089	0.0020	1.2226	-0.3800	0.0291	0.0116	-0.0029	0.4001	-0.0980
3	0.01	0.0	-0.0128	-0.0119	0.0069	0.7752	-0.3808	-0.0043	0.0056	-0.0230	-1.2856	5.3141
4	1.44	0.0	-0.0135	-0.0128	0.0116	0.6171	-0.3798	-0.0463	-0.0028	-0.0391	0.0589	0.8104
5	2.46	0.0	-0.0134	-0.0121	0.0117	0.6552	-0.3793	-0.0847	-0.0121	-0.0516	0.1343	0.5746
6	3.46	0.0	0.0237	0.0145	-0.0240	0.6137	-0.3796	-0.1316	-0.0174	-0.0801	0.1326	0.6090
7	4.45	0.0	-0.0158	-0.0136	0.0028	1.2252	-0.3797	-0.1786	-0.0240	-0.0966	0.1343	0.5518
8	5.46	0.0	-0.0162	-0.0155	0.0004	0.7055	-0.3798	-0.2347	-0.0311	-0.1194	0.1323	0.5088
9	6.46	0.0	-0.0228	-0.0124	0.0264	0.5256	-0.3798	-0.2852	-0.0358	-0.1495	0.1256	0.5206
10	7.46	0.0	0.0125	0.0082	-0.0240	0.3335	-0.3799	-0.3473	-0.0469	-0.1746	0.1349	0.5027
11	8.47	0.0	0.0285	0.0162	-0.0393	0.4951	-0.3799	-0.4022	-0.0499	-0.1739	0.1241	0.4324
12	9.47	0.0	-0.0187	-0.0104	0.0063	0.5218	-0.3801	-0.4605	-0.0589	-0.2215	0.1279	0.4809
13	10.48	0.0	-0.0116	-0.0163	0.0163	0.5760	-0.3797	-0.5147	-0.0630	-0.2466	0.1226	0.4791
14	11.47	0.0	-0.0276	-0.0157	0.0103	0.6154	-0.3798	-0.5656	-0.0661	-0.2706	0.1169	0.4784
15	12.48	0.0	-0.0153	-0.0128	0.0031	0.6413	-0.1631	-0.6286	-0.0707	-0.2937	0.1124	0.4672
16	13.51	0.0	-0.0147	-0.0122	0.0094	0.6343	-0.3797	-0.6920	-0.0720	-0.3122	0.1040	0.4511
17	14.45	0.0	-0.0168	-0.0126	-0.0007	0.6316	-0.3791	-0.7361	-0.0660	-0.2996	0.0897	0.4070
18	15.50	0.0	-0.0182	-0.0143	0.0069	0.3332	-0.3798	-0.8254	-0.0813	-0.3681	0.0985	0.4460
19	16.49	0.0	-0.0165	-0.0126	0.0037	0.5612	-0.3797	-0.8912	-0.0839	-0.3851	0.0941	0.4321
20	17.55	0.0	0.0111	0.0012	0.0	0.1669	0.0	-0.9347	-0.0928	-0.4071	0.0886	0.4355
21	18.52	0.0	0.0381	0.0078	-0.0086	0.2295	-0.1389	-0.9817	-0.0816	-0.4236	0.0832	0.4284
22	19.53	0.0	0.0149	-0.0089	-0.0013	-0.4261	-0.0074	-1.0393	-0.0949	-0.4094	0.0817	0.3929

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 3
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RNLG=6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2	34	0.5V	1.1	180.0	M3.0F15	0.0	0	0	0	0	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAW	CAF	ACP
1	-1.06	0.0	-0.2256	0.0178	-0.0271	0.0107	-0.0006	0.3071	0.1035	0.1975	-1.3495
2	-0.54	0.0	-0.0244	0.0030	-0.0265	0.0179	-0.0132	0.4054	0.1036	0.2023	-2.2557
3	0.02	0.0	0.0022	-0.1052	-0.0337	0.0162	-0.0128	0.3081	0.0943	0.2138	-1.2894
4	1.46	0.0	0.1764	-0.2225	-0.0395	0.0312	-0.0125	0.3056	0.0957	0.2099	-1.2596
5	2.99	0.0	0.2871	-0.4020	-0.0290	0.0139	-0.0088	0.3031	0.0981	0.2050	-1.4025
6	3.46	0.0	0.3926	-0.5436	-0.0284	0.0217	-0.0085	0.3030	0.1025	0.2005	-1.4882
7	4.46	0.0	0.5152	-0.6827	-0.0330	0.0245	-0.0063	0.3006	0.1015	0.1992	-1.5951
8	5.44	0.0	0.6563	-1.0926	-0.0184	0.0011	-0.0095	0.2948	0.0999	0.1989	-1.6498
9	6.43	0.0	0.8017	-1.3818	-0.0207	0.0223	-0.0068	0.3007	0.1074	0.1933	-1.7248
10	7.49	0.0	0.9627	-1.7584	-0.0322	0.0272	-0.0042	0.3100	0.1181	0.1919	-1.7994
11	8.51	0.0	1.1151	-2.0856	-0.0313	0.0282	-0.0067	0.3054	0.1186	0.1873	-1.8280
12	9.53	0.0	1.2693	-2.3642	-0.0323	0.0234	-0.0086	0.3092	0.1244	0.1848	-1.8639
13	10.54	0.0	1.4255	-2.7161	-0.0226	0.0172	-0.0038	0.3146	0.1262	0.1658	-1.8748
14	11.55	0.0	1.5847	-2.9819	-0.0249	0.0271	-0.0093	0.3115	0.1300	0.1755	-1.8761
15	12.53	0.0	1.7435	-3.3711	-0.0282	0.0226	-0.0065	0.3114	0.1387	0.1727	-1.8908
16	13.54	0.0	1.9053	-3.7004	-0.0285	0.0177	-0.0091	0.3085	0.1444	0.1641	-1.8915
17	14.53	0.0	2.0671	-4.0005	-0.0265	0.0263	-0.0025	0.3074	0.1482	0.1594	-1.8936
18	15.54	0.0	2.2426	-4.3144	-0.0183	-0.0096	-0.0106	0.2990	0.1544	0.1445	-1.8899
19	16.56	0.0	2.4061	-4.7553	-0.0280	0.0283	-0.0175	0.3063	0.1688	0.1314	-1.8991
20	17.58	0.0	2.5818	-5.1134	-0.0267	-0.0440	-0.0171	0.3041	0.1754	0.1287	-1.9068
21	18.57	0.0	2.7519	-5.5187	0.0013	-0.0436	-0.0224	0.3125	0.1908	0.1217	-1.9150
22	19.60	0.0	3.0400	-5.9120	0.0069	-0.0552	-0.0317	0.3165	0.1976	0.1129	-1.9118

MCAIR MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RALPHA	RMI	CONF	S	DEL1	DEL2	DEL3	DELA	TRANSITION
2	39	0.59	1.1	10.0	M340F15	0.0	0	0	0	0	FIXED

POINT	ALPHA	BETA	CNF1	CM1	CA1	XCPF1	YCPF1	CNF2	CM2	CA2	XCPF2	YCPF2
1	-1.35	0.0	-0.0341	-0.0172	0.0169	0.4112	-0.7817	0.0561	0.0086	0.0059	0.1539	0.1051
2	-0.39	0.0	-0.0359	-0.0087	-0.0042	0.1875	0.0845	0.0270	0.0046	-0.0008	0.1719	-0.0308
3	0.42	0.0	-0.0358	-0.0067	0.0052	0.1476	-0.1469	-0.0140	-0.0038	-0.0275	0.2150	-1.9608
4	1.46	0.0	-0.0293	-0.0049	0.0024	0.1747	-0.0842	-0.0622	-0.0133	-0.0317	0.2138	0.5090
5	2.48	0.0	-0.0256	-0.0041	-0.0127	0.1657	0.5216	-0.0998	-0.0177	-0.0467	0.1770	0.4678
6	3.46	0.0	-0.0285	-0.0041	0.0122	0.1457	-0.4904	-0.1541	-0.0253	-0.0742	0.1641	0.4816
7	4.48	0.0	-0.0375	-0.0041	0.0115	0.2136	-0.3032	-0.2011	-0.0305	-0.0965	0.1516	0.4797
8	5.44	0.0	-0.0373	-0.0041	0.0132	0.2135	-0.0462	-0.2497	-0.0365	-0.1134	0.1461	0.4541
9	6.43	0.0	-0.0374	-0.0049	-0.0146	0.1746	0.5030	-0.3122	-0.0455	-0.1387	0.1456	0.4442
10	7.49	0.0	-0.0393	-0.0075	-0.0079	0.1920	0.1859	-0.3791	-0.0512	-0.1715	0.1350	0.4523
11	8.51	0.0	-0.0383	-0.0078	-0.0067	0.1950	0.3647	-0.4387	-0.0563	-0.1987	0.1306	0.4613
12	9.53	0.0	-0.0364	-0.0084	0.0058	0.2017	-0.3745	-0.5001	-0.0666	-0.2127	0.1331	0.4252
13	10.53	0.0	-0.0424	-0.0088	0.0111	0.1859	-0.3782	-0.5565	-0.0712	-0.2321	0.1279	0.4168
14	11.55	0.0	-0.0383	-0.0054	0.0173	0.1569	-0.2114	-0.6178	-0.0773	-0.2613	0.1252	0.4230
15	12.53	0.0	-0.0384	-0.0074	0.0158	0.1774	-0.1903	-0.6693	-0.0796	-0.2814	0.1194	0.4204
16	13.56	0.0	-0.0224	-0.0027	-0.0056	0.1149	1.2429	-0.7386	-0.0875	-0.2954	0.1165	0.4088
17	14.53	0.0	-0.0429	-0.0081	-0.0018	0.1654	0.0716	-0.7857	-0.0866	-0.3217	0.1128	0.4095
18	15.54	0.0	-0.0279	-0.0049	0.0168	0.1745	-0.6717	-0.8268	-0.0916	-0.3305	0.1108	0.3998
19	16.56	0.0	-0.0308	-0.0117	-0.0113	0.4641	0.3166	-0.9069	-0.0966	-0.3504	0.1068	0.3872
20	17.56	0.0	-0.0336	-0.0052	0.0152	0.1560	-0.4612	-0.9540	-0.0996	-0.3637	0.1039	0.3796
21	18.57	0.0	-0.0375	-0.0115	-0.0158	-0.1053	2.1564	-0.9963	-0.0986	-0.3716	0.0989	0.3717
22	19.60	0.0	-0.0353	0.0022	-0.0172	-0.4199	3.2695	-1.0292	-0.0928	-0.3741	0.0902	0.3634

ARNOLD ENGINEERING DEVELOPMENT CENTER(APDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 3 OF 3
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RE/10**6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2	39	0.59	1.1	180.0	B3-SF15	0.0	0	0	0	0	FIXED

POINT	ALPHA	BETA	CNF3	CM3	CN3	XCPF3	YCPF3	CNF4	CM4	CD4	XCPF4	YCPF4
1	-1.60	0.0	-0.0034	-0.0035	0.0032	0.6843	-0.3749	0.0627	0.0165	0.0117	0.2625	0.1867
2	-0.59	0.0	-0.0173	-0.0101	0.0066	1.5864	-0.3800	0.0301	0.0102	-0.0032	0.3373	-0.1056
3	0.42	0.0	-0.0124	-0.0085	0.0044	0.5029	-0.3747	-0.0125	0.0034	-0.0208	-0.2683	1.5992
4	1.46	0.0	-0.0177	-0.0085	0.0040	0.4777	-0.2233	-0.0535	-0.0066	-0.0375	0.1229	0.7003
5	2.44	0.0	-0.0141	-0.0116	0.0085	0.5956	-0.2358	-0.0904	-0.0130	-0.0528	0.1443	0.5847
6	3.46	0.0	0.0060	0.0035	-0.0015	0.4450	-0.3784	-0.1376	-0.0190	-0.0814	0.1354	0.6137
7	4.48	0.0	-0.0127	-0.0053	0.0033	0.6249	-0.3749	-0.1457	-0.0263	-0.0965	0.1416	0.5306
8	5.44	0.0	-0.0178	-0.0104	0.0065	0.6290	-0.3748	-0.2364	-0.0325	-0.1163	0.1374	0.4997
9	6.43	0.0	-0.0235	-0.0179	0.0116	0.5715	-0.3748	-0.2882	-0.0378	-0.1538	0.1312	0.5338
10	7.49	0.0	-0.0213	0.0200	0.0005	-0.4726	-0.3840	-0.3614	-0.0475	-0.1795	0.1313	0.4967
11	8.51	0.0	-0.0183	-0.0227	0.0218	0.6269	-0.3748	-0.4070	-0.0505	-0.1856	0.1240	0.4559
12	9.53	0.0	-0.0144	0.0000	-0.0309	-0.1772	0.1824	-0.4731	-0.0596	-0.2253	0.1260	0.4762
13	10.53	0.0	-0.0177	-0.0128	0.0125	0.3442	-0.3948	-0.5301	-0.0660	-0.2531	0.1208	0.4776
14	11.55	0.0	-0.0240	-0.0189	0.0059	0.5303	-0.2444	-0.5837	-0.0677	-0.2769	0.1160	0.4764
15	12.53	0.0	-0.0197	-0.0267	0.0228	0.4871	-0.1772	-0.6396	-0.0731	-0.2968	0.1142	0.4648
16	13.54	0.0	-0.0255	0.0304	0.0122	-0.0765	-0.3802	-0.6947	-0.0746	-0.3151	0.1074	0.4538
17	14.53	0.0	-0.0153	-0.0262	0.0255	0.4017	-0.3748	-0.7306	-0.0808	-0.3107	0.0962	0.4252
18	15.56	0.0	-0.0265	-0.0318	0.0223	0.2295	-0.3804	-0.7982	-0.0805	-0.3544	0.1009	0.4440
19	16.56	0.0	-0.0216	-0.0281	0.0175	0.4877	-0.3749	-0.8454	-0.0868	-0.3867	0.0976	0.4368
20	17.56	0.0	-0.0253	-0.0311	0.0196	0.4374	-0.3796	-0.9259	-0.0964	-0.4028	0.0934	0.4350
21	18.57	0.0	-0.0052	-0.0321	0.0183	0.3982	-0.9101	-0.5818	-0.0862	-0.4168	0.0878	0.4245
22	19.60	0.0	-0.0147	-0.0095	0.0084	0.6450	-0.5669	-1.0463	-0.0993	-0.4185	0.0852	0.3992

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	REIJ-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2	40	0.60	1.0	180.0	03.0F15	0.0	0	0	0	0	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	ACP
1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
2	-0.56	0.0	[illegible]	[illegible]	[illegible]	0.0178	-0.0122	0.2903	0.0974	0.1929	-1.5701
3	0.44	0.0	[illegible]	[illegible]	[illegible]	0.0185	-0.0134	0.2904	0.0982	0.1922	-1.1891
4	1.44	0.0	0.1744	-0.2722	-0.0262	0.0365	-0.0107	0.2904	0.0986	0.1918	-1.2992
5	2.43	0.0	[illegible]	[illegible]	[illegible]	[illegible]	-0.0124	0.2871	0.1005	0.1866	-1.3743
6	3.44	0.0	0.3944	[illegible]	0.0255	0.0218	-0.0049	0.2864	0.1016	0.1853	-1.5282
7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-0.0112	0.2862	0.1014	0.1847	-1.6069
8	5.47	0.0	0.6521	[illegible]	[illegible]	0.0337	-0.0043	0.2833	0.1008	0.1826	-1.6674
9	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	-0.0046	0.2879	0.1068	0.1792	-1.7588
10	7.48	0.0	0.9364	-1.6922	[illegible]	0.0249	-0.0075	0.2894	0.1119	0.1775	-1.8141
11	8.50	0.0	1.1128	[illegible]	0.0262	0.0252	-0.0062	0.2954	0.1205	0.1750	-1.8523
12	9.49	0.0	1.2451	-2.3469	-0.0224	0.0209	-0.0065	0.2972	0.1244	0.1728	-1.8848
13	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.2981	0.1321	0.1660	-1.8970
14	11.44	0.0	1.4934	-3.0713	-0.0265	0.0161	-0.0078	0.2994	0.1391	0.1603	-1.9089
15	12.55	0.0	1.7841	[illegible]	[illegible]	0.0150	[illegible]	0.3028	0.1476	0.1551	-1.9134
16	13.55	0.0	1.9596	-3.7222	-0.0269	0.0294	-0.0068	0.2956	0.1499	0.1457	-1.9082
17	14.56	0.0	2.1544	[illegible]	[illegible]	0.0237	-0.0062	0.2933	0.1563	0.1391	-1.9059
18	15.56	0.0	2.3167	-4.3974	-0.0227	0.0193	-0.0100	0.2908	0.1578	0.1330	-1.9016
19	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	0.2889	0.1585	0.1314	-1.8998
20	17.61	0.0	2.7162	-5.1772	-0.0224	-0.0006	-0.0151	0.2912	0.1706	0.1207	-1.8863
21	18.60	0.0	2.8784	[illegible]	[illegible]	0.0152	-0.0176	0.2940	0.1846	0.1094	-1.8817
22	19.64	0.0	3.0500	-5.7344	-0.0264	-0.0262	-0.0306	0.2923	0.1947	0.0976	-1.8802

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 2 OF 3
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST PART MACH RNLM PHI CONF L DEL1 DEL2 DEL3 DELA TRANSITION
2 40 0.5M 1.3 180.0 WINGF15 0.0 0 0 0 0 FIXED

POINT	ALPHA	BETA	CNF1	CM1	CA1	XCPF1	YCPF1	CNF2	CM2	CA2	XCPF2	YCPF2
1	-1.54	0.0	-0.0235	-0.0186	0.0038	0.1577	-0.1258	0.0513	0.0076	0.0068	0.1489	0.1723
2	-0.52	0.0	-0.0035	-0.0161	0.0060	0.2041	-0.0163	0.0213	0.0033	0.0018	0.1562	0.0836
3	0.44	0.0	-0.0117	-0.0207	-0.0021	0.4616	0.1769	-0.0122	-0.0028	-0.0222	0.2279	1.8217
4	1.44	0.0	-0.0253	-0.0053	0.0151	0.1574	-0.5335	-0.0567	-0.0112	-0.0324	0.1972	0.5718
5	2.43	0.0	-0.0248	-0.0025	0.0176	0.1556	0.3689	-0.1022	-0.0188	-0.0443	0.1844	0.4333
6	3.44	0.0	-0.0119	-0.0107	0.0154	0.0421	-1.3032	-0.1541	-0.0250	-0.0697	0.1626	0.4526
7	4.45	0.0	-0.0116	-0.0054	0.0178	0.1422	-0.2369	-0.2045	-0.0314	-0.0922	0.1533	0.4505
8	5.47	0.0	-0.0341	-0.0087	-0.0049	0.1950	0.2025	-0.2570	-0.0368	-0.1176	0.1511	0.4577
9	6.45	0.0	-0.0226	-0.0033	0.0013	0.1747	-0.0863	-0.3162	-0.0455	-0.1489	0.1438	0.4718
10	7.46	0.0	-0.0334	-0.0067	-0.0025	0.1980	0.0734	-0.3749	-0.0511	-0.1668	0.1363	0.4449
11	8.46	0.0	-0.0265	-0.0024	0.0012	0.1356	-0.0582	-0.4458	-0.0580	-0.1965	0.1325	0.4411
12	9.47	0.0	-0.0287	-0.0092	-0.0102	0.1356	0.4866	-0.5104	-0.0681	-0.2166	0.1334	0.4243
13	10.53	0.0	-0.0184	-0.0114	0.0104	0.0961	1.2648	-0.5636	-0.0716	-0.2363	0.1270	0.4228
14	11.50	0.0	-0.0337	-0.0135	0.0023	0.1441	-0.0976	-0.6254	-0.0774	-0.2612	0.1236	0.4173
15	12.55	0.0	-0.0327	-0.0158	0.0017	0.1720	-0.2417	-0.6838	-0.0797	-0.2875	0.1165	0.4205
16	13.55	0.0	-0.0198	-0.0017	0.0049	0.0809	-0.2610	-0.7412	-0.0863	-0.3014	0.1165	0.4067
17	14.56	0.0	-0.0161	-0.0061	0.0116	0.4222	-0.8878	-0.8035	-0.0906	-0.3228	0.1126	0.4017
18	15.56	0.0	-0.0295	-0.0062	0.0255	0.1579	-0.9600	-0.8517	-0.0936	-0.3365	0.1099	0.3951
19	16.61	0.0	-0.0157	-0.0011	0.0234	0.0617	-1.2135	-0.9078	-0.0968	-0.3563	0.1066	0.3925
20	17.61	0.0	-0.0291	-0.0045	0.0219	0.1657	-0.7527	-0.9625	-0.0987	-0.3714	0.1026	0.3859
21	18.56	0.0	-0.0052	0.0100	-0.0021	-0.1361	0.3488	-1.0038	-0.0990	-0.3733	0.0389	0.3738
22	19.64	0.0	-0.0052	0.0022	0.0020	-0.4204	-0.3779	-1.0345	-0.0953	-0.3693	0.0922	0.3570

MANTIS MISSILE TAIL EFFECTS DATA

TEST	PART	EACH	EXIGN	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2		+0	0.5M	1.3	180.0	B3+0F15	0.0	0	0	0	0	FIXED

POINT	ALPHA	BETA	CNF3	CM3	CA3	XCPF3	YCPF3	CNF4	CM4	CA4	XCPF4	YCPF4
1	-1.55	0.0	-0.0122	-0.0083	0.0084	0.5174	-0.3691	0.0558	0.0144	0.0116	0.2583	0.2042
2	-0.56	0.0	-0.0144	-0.0108	0.0075	0.5474	-0.3749	0.0236	0.0101	-0.0046	0.4267	-0.1951
3	0.00	0.0	-0.0082	-0.0060	0.0050	0.2290	-0.3798	-0.0166	-0.0019	-0.0199	-0.1146	1.2044
4	1.04	0.0	-0.0029	-0.0026	0.0000	0.5480	-0.3799	-0.0503	-0.0055	-0.0379	0.1100	0.7537
5	2.03	0.0	-0.0030	-0.0024	0.0118	0.5797	-0.3800	-0.0918	-0.0132	-0.0528	0.1449	0.5773
6	3.04	0.0	-0.0004	-0.0025	0.0025	0.6477	-0.3806	-0.1374	-0.0192	-0.0797	0.1396	0.5000
7	4.05	0.0	-0.0061	-0.0046	0.0045	0.6433	-0.7451	-0.1687	-0.0263	-0.1021	0.1394	0.5410
8	5.07	0.0	-0.0142	-0.0093	0.0069	0.5371	-0.3796	-0.2414	-0.0339	-0.1327	0.1403	0.5082
9	6.05	0.0	-0.0184	-0.0088	0.0055	0.4724	-0.3796	-0.2930	-0.0384	-0.1550	0.1310	0.5291
10	7.08	0.0	0.0003	0.0021	-0.0001	0.5793	-0.3800	-0.3571	-0.0464	-0.1757	0.1299	0.4919
11	8.50	0.0	-0.0034	-0.0041	0.0031	0.6925	-0.3804	-0.4193	-0.0513	-0.1914	0.1223	0.4565
12	9.49	0.0	-0.0079	-0.0131	0.0100	0.4994	-0.3800	-0.4733	-0.0578	-0.2285	0.1222	0.4028
13	10.53	0.0	-0.0144	-0.0235	0.0134	0.4869	-0.3800	-0.5337	-0.0636	-0.2548	0.1193	0.4776
14	11.54	0.0	-0.0141	-0.0091	0.0069	0.5028	-0.3797	-0.5413	-0.0677	-0.2795	0.1145	0.4728
15	12.55	0.0	-0.0156	-0.0093	0.0065	0.4934	-0.2610	-0.6566	-0.0734	-0.3045	0.1128	0.4678
16	13.55	0.0	-0.0254	-0.0115	0.0097	0.4504	-0.3799	-0.7019	-0.0749	-0.3169	0.1067	0.4515
17	14.56	0.0	-0.0191	-0.0074	0.0073	0.4144	-0.3799	-0.7510	-0.0746	-0.3218	0.0986	0.4285
18	15.56	0.0	-0.0181	-0.0065	0.0061	0.3990	-0.3800	-0.8264	-0.0844	-0.3640	0.1021	0.4427
19	16.61	0.0	-0.0154	-0.0055	0.0047	0.3947	-0.2534	-0.8844	-0.0877	-0.3878	0.0991	0.4385
20	17.61	0.0	-0.0134	-0.0049	0.0073	0.3332	-0.5836	-0.9364	-0.0962	-0.4046	0.0941	0.4321
21	18.60	0.0	-0.0174	-0.0038	0.0073	0.5432	-0.9555	-0.9736	-0.0866	-0.4129	0.0890	0.4240
22	19.64	0.0	-0.0213	-0.0119	0.0081	0.5469	-0.3798	-1.0427	-0.0882	-0.4225	0.0846	0.4052

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 3
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RUN	MMI	CURVE	L	DEL1	DEL2	DEL3	DELA	TRANSITION
2	1	0.59	3.0	100.0	B3=0F15	6.0	0	0	0	0	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-1.01	0.0	-0.1007	0.0153	-0.0107	0.0020	-0.0052	0.2535	0.1050	0.1485	-1.4079
2	-0.50	0.0	-0.0027	0.0025	-0.0077	-0.0000	-0.0047	0.2537	0.1071	0.1461	-0.8441
3	0.47	0.0	0.1139	-0.0159	-0.0055	-0.0018	-0.0005	0.2553	0.1069	0.1466	-1.4100
4	1.49	0.0	0.2052	-0.0288	-0.0064	-0.0025	-0.0030	0.2547	0.1089	0.1458	-1.4064
5	2.53	0.0	0.3241	-0.0477	-0.0067	0.0043	-0.0038	0.2511	0.1085	0.1426	-1.4745
6	3.51	0.0	0.4341	-0.0671	-0.0059	0.0074	-0.0009	0.2507	0.1092	0.1415	-1.5682
7	4.53	0.0	0.5541	-0.0882	-0.0044	0.0097	-0.0015	0.2534	0.1081	0.1457	-1.6296
8	5.57	0.0	0.7049	-0.1138	-0.0050	0.0124	-0.0003	0.2564	0.1095	0.1474	-1.7084
9	6.56	0.0	0.8618	-0.1425	-0.0048	0.0069	0.0007	0.2636	0.1148	0.1447	-1.7738
10	7.58	0.0	1.0152	-0.1750	-0.0058	0.0046	0.0013	0.2655	0.1249	0.1407	-1.8291
11	8.60	0.0	1.1681	-0.2134	-0.0079	0.0155	0.0003	0.2686	0.1304	0.1381	-1.8678
12	9.65	0.0	1.3494	-0.2525	-0.0070	0.0127	0.0014	0.2681	0.1364	0.1317	-1.8998
13	10.68	0.0	1.5321	-0.2965	-0.0143	0.0203	0.0015	0.2698	0.1432	0.1266	-1.9174
14	11.73	0.0	1.7259	-0.3211	-0.0133	0.0216	-0.0006	0.2682	0.1490	0.1192	-1.9249
15	12.75	0.0	1.9154	-0.3738	-0.0124	0.0213	-0.0005	0.2673	0.1524	0.1146	-1.9285
16	13.76	0.0	2.0949	-0.4333	-0.0092	-0.0036	-0.0022	0.2653	0.1577	0.1076	-1.9210
17	14.80	0.0	2.2774	-0.4958	-0.0125	-0.0012	-0.0007	0.2626	0.1630	0.0996	-1.9078
18	15.84	0.0	2.4726	-0.5660	0.0029	-0.0133	0.0050	0.2618	0.1670	0.0948	-1.8933
19	16.85	0.0	2.6564	-0.6372	0.0129	-0.0177	0.0044	0.2586	0.1755	0.0828	-1.8731
20	17.93	0.0	2.8494	-0.7213	0.0127	-0.0263	-0.0096	0.2601	0.1871	0.0730	-1.8498
21	18.97	0.0	3.0334	-0.8091	0.0059	-0.0159	-0.0102	0.2636	0.1981	0.0656	-1.8381
22	20.01	0.0	3.2146	-0.8965	0.0128	-0.0326	-0.0129	0.2632	0.2090	0.0542	-1.8127

MANTIS MISSILE TAIL EFFECTS DATA

TEST	CART	MACH	REX10**6	PHI	CONE	L	DEL1	DEL2	DEL3	DELA	TRANSITION
2	#1	0.5#	3.0	180.0	63#0F15	0.0	0	0.	0	0	FIXED

POINT	ALPHA	BETA	CNF1	CM1	CA1	XCPF1	YCPF1	CNF2	CM2	CA2	XCPF2	YCPF2
1	-1.01	0.0	-0.0135	-0.0016	0.0051	0.1042	-0.3781	0.0396	0.0067	0.0116	0.1189	0.2930
2	-0.95	0.0	-0.0211	-0.0032	0.0023	0.1513	-0.1074	0.0024	-0.0004	-0.0015	-0.1505	-0.5385
3	0.47	0.0	-0.0114	-0.0011	-0.0005	0.0956	0.5682	-0.0386	-0.0071	-0.0223	0.1828	0.5791
4	1.44	0.0	-0.0125	-0.0017	0.0029	0.0920	-0.1815	-0.0065	-0.0146	-0.0361	0.1818	0.4479
5	2.53	0.0	-0.0107	-0.0005	-0.0025	0.0461	0.2311	-0.1233	-0.0209	-0.0550	0.1695	0.4464
6	3.51	0.0	-0.0107	-0.0005	0.0032	0.0439	-0.3013	-0.1777	-0.0284	-0.0765	0.1627	0.4418
7	4.53	0.0	-0.0116	-0.0016	0.0027	0.1033	-0.1475	-0.2290	-0.0351	-0.1035	0.1533	0.4520
8	5.57	0.0	-0.0175	-0.0026	-0.0022	0.1356	0.1248	-0.2927	-0.0442	-0.1260	0.1510	0.4304
9	6.58	0.0	-0.0125	-0.0012	-0.0051	0.0926	0.4081	-0.3585	-0.0516	-0.1570	0.1448	0.4380
10	7.58	0.0	-0.0111	-0.0007	-0.0054	0.0620	0.4546	-0.4172	-0.0573	-0.1831	0.1372	0.4388
11	8.60	0.0	-0.0085	0.0003	-0.0050	-0.0037	1.5794	-0.4836	-0.0638	-0.2115	0.1320	0.4373
12	9.65	0.0	-0.0053	0.0005	-0.0037	-0.1530	0.7019	-0.5505	-0.0704	-0.2362	0.1278	0.4327
13	10.68	0.0	-0.0104	-0.0021	0.0035	0.0054	-0.0519	-0.6149	-0.0743	-0.2621	0.1209	0.4262
14	11.73	0.0	-0.0001	0.0011	-0.0025	-0.1471	0.6279	-0.6817	-0.0793	-0.2851	0.1164	0.4182
15	12.75	0.0	-0.0120	-0.0033	0.0023	0.0318	-0.1824	-0.7451	-0.0836	-0.3092	0.1125	0.4150
16	13.78	0.0	-0.0059	0.0007	-0.0065	-0.1062	0.9499	-0.8132	-0.0891	-0.3303	0.1096	0.4062
17	14.80	0.0	-0.0057	0.0011	-0.0025	-0.1715	0.4625	-0.8714	-0.0928	-0.3467	0.1065	0.3979
18	15.84	0.0	-0.0052	0.0007	0.0058	-0.1082	-0.7408	-0.9320	-0.0972	-0.3671	0.1043	0.3939
19	16.83	0.0	-0.0038	0.0010	-0.0045	-0.2579	0.8349	-0.9769	-0.1012	-0.3779	0.1036	0.3869
20	17.93	0.0	-0.0056	0.0010	-0.0021	-0.2576	0.3794	-1.0213	-0.1046	-0.3873	0.1024	0.3793
21	18.97	0.0	-0.0067	0.0043	-0.0073	6.0027	-13.2571	-1.0650	-0.1033	-0.3926	0.0978	0.3686
22	20.01	0.0	-0.0029	0.0027	-0.0034	-0.4024	1.2841	-1.1009	-0.0996	-0.3957	0.0903	0.3595

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 3 OF 3
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RNI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2	41	0.57	3.4	180.0	03>0F15	0.0	0	0	0	0	FIXED

POINT	ALPHA	BETA	CNF3	CM3	CN3	XCPF3	YCPF3	CNF4	CM4	CB4	XCPF4	YCPF4
1	-1.61	0.0	-0.1[illegible]	-0.[illegible]	0.0[illegible]	0.4522	-0.1846	0.0502	0.0101	0.0173	0.2005	0.3448
2	-0.58	0.0	-0.[illegible]	-0.[illegible]	0.0[illegible]	0.4057	-0.0079	0.0116	0.0038	-0.0004	0.3317	-0.0311
3	0.47	0.0	-0.[illegible]	-0.[illegible]	0.[illegible]	0.3652	-0.0118	-0.0280	-0.0028	-0.0159	0.1118	0.0508
4	1.49	0.0	-0.[illegible]	-0.[illegible]	0.0031	0.4621	-0.2106	-0.0639	-0.0097	-0.0336	0.1520	0.5265
5	2.53	0.0	-0.[illegible]	-0.[illegible]	0.0036	0.4638	-0.2568	-0.1074	-0.0178	-0.0534	0.1657	0.4967
6	3.51	0.0	-0.[illegible]	0.[illegible]	-0.0010	-0.0357	0.2562	-0.1517	-0.0239	-0.0759	0.1578	0.5007
7	4.53	0.0	-0.[illegible]	-0.[illegible]	0.[illegible]	0.4431	-0.0854	-0.2047	-0.0315	-0.0982	0.1539	0.4787
8	5.57	0.0	-0.[illegible]	-0.[illegible]	0.0036	0.4547	-0.3068	-0.2612	-0.0348	-0.1244	0.1477	0.4761
9	6.58	0.0	-0.[illegible]	-0.[illegible]	0.0022	0.4607	-0.2179	-0.3210	-0.0452	-0.1541	0.1409	0.4708
10	7.58	0.0	-0.[illegible]	-0.0031	0.0069	0.3473	-0.1017	-0.3818	-0.0520	-0.1812	0.1363	0.4747
11	8.60	0.0	-0.[illegible]	-0.[illegible]	0.0007	0.3559	-0.0810	-0.4444	-0.0578	-0.2056	0.1300	0.4621
12	9.65	0.0	-0.[illegible]	-0.0047	0.[illegible]	0.3765	-0.1836	-0.5070	-0.0637	-0.2391	0.1257	0.4716
13	10.68	0.0	-0.[illegible]	-0.[illegible]	0.[illegible]	0.3265	-0.1814	-0.5713	-0.0689	-0.2670	0.1206	0.4669
14	11.73	0.0	-0.[illegible]	-0.0053	0.0035	0.4596	-0.2596	-0.6399	-0.0735	-0.2947	0.1149	0.4605
15	12.75	0.0	-0.[illegible]	-0.[illegible]	0.0004	0.3427	-0.0366	-0.6998	-0.0764	-0.3165	0.1097	0.4551
16	13.76	0.0	-0.[illegible]	-0.[illegible]	0.0033	0.4342	-0.3803	-0.7618	-0.0804	-0.3403	0.1056	0.4467
17	14.80	0.0	-0.[illegible]	-0.[illegible]	0.0033	0.4425	-0.3865	-0.8186	-0.0828	-0.3521	0.1022	0.4343
18	15.84	0.0	-0.[illegible]	-0.1029	0.0031	0.4914	-0.5176	-0.8687	-0.0890	-0.3798	0.1025	0.4372
19	16.84	0.0	-0.[illegible]	-0.[illegible]	0.0052	0.5066	-0.5572	-0.9213	-0.0922	-0.3989	0.1001	0.4338
20	17.93	0.0	-0.[illegible]	-0.[illegible]	0.3024	0.4817	-1.2040	-0.9710	-0.0939	-0.4165	0.0967	0.4290
21	18.97	0.0	-0.[illegible]	-0.[illegible]	0.0027	2.5566	-0.8036	-1.0119	-0.0927	-0.4223	0.0916	0.4173
22	20.01	0.0	-0.[illegible]	-0.0053	0.0037	0.7186	-0.4906	-1.0554	-0.0917	-0.4269	0.0869	0.4045

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	REIN=E6	PHI	CONF	I	DEL1	DEL2	DEL3	DEL4	TRANSITION
2	47	0.5V	0.4	0.0	B3-0F15	0.0	0	0	0	0	FREE

POINT	ALPHA	BETA	CN	CLN	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-1.61	0.0	-0.1250	0.2095	-0.1621	0.1018	0.0163	0.4542	0.3963	0.3579	-1.6378
2	-0.62	0.0	-0.0[illegible]3	0.0[illegible]36	-0.1547	0.1473	0.0096	0.4509	0.0792	0.3717	-0.7837
3	0.42	0.0	0.0274	-0.0139	-0.1531	0.1527	0.0093	0.4506	0.0879	0.3627	-0.5855
4	1.41	0.0	0.1283	-0.2010	-0.1467	0.1461	0.0052	0.4409	0.0984	0.3425	-1.5667
5	2.40	0.0	0.2283	-0.3388	-0.1530	0.1487	0.0183	0.4559	0.1040	0.3519	-1.4806
6	3.40	0.0	0.3320	-0.4574	-0.1437	0.1372	0.0134	0.4464	0.0958	0.3506	-1.5455
7	4.43	0.0	0.4525	-0.6228	-0.1548	0.1470	0.0072	0.4418	0.0858	0.3555	-1.6044
8	5.41	0.0	0.5507	-0.7167	-0.1543	0.1570	0.0053	0.4345	0.0838	0.3506	-1.6759
9	6.39	0.0	0.6569	-0.8981	-0.1451	0.1355	0.0092	0.4430	0.0979	0.3551	-1.7213
10	7.42	0.0	0.7690	-1.0212	-0.1334	0.1255	0.0087	0.4345	0.0956	0.3389	-1.7505
11	8.42	0.0	1.0852	-1.4800	-0.1368	0.1220	0.0095	0.4255	0.1049	0.3206	-1.7854
12	9.41	0.0	1.1723	-1.6267	-0.1300	0.1149	0.0097	0.3943	0.1118	0.2825	-1.8142
13	10.45	0.0	1.3[illegible]6	-1.7[illegible]2	-0.1436	0.1196	0.0067	0.3923	0.1127	0.2796	-1.8316
14	11.44	0.0	1.4931	-2.0737	-0.1374	0.1356	0.0132	0.3834	0.1220	0.2614	-1.8611
15	12.46	0.0	1.6755	-2.1415	-0.1164	0.1060	0.0106	0.3800	0.1262	0.2538	-1.8752
16	13.46	0.0	1.8221	-2.3438	-0.1195	0.0969	0.0174	0.3819	0.1364	0.2451	-1.8624
17	14.43	0.0	2.0045	-2.7227	-0.1273	0.1056	0.0206	0.3982	0.1473	0.2509	-1.8577
18	15.46	0.0	2.2634	-2.9469	-0.1274	0.0704	0.0140	0.3989	0.1523	0.2465	-1.8761
19	16.48	0.0	2.5[illegible]4	-3.3[illegible]9	-0.1164	0.0575	0.0152	0.3967	0.1618	0.2329	-1.8862
20	17.45	0.0	2.7274	-3.6976	-0.1359	0.0944	0.0333	0.4057	0.1597	0.2460	-1.8691
21	18.50	0.0	3.0103	-3.9501	-0.0981	0.0136	0.0177	0.3937	0.1717	0.2221	-1.8535
22	19.50	0.0	3.2459	-3.9617	-0.1071	0.0572	0.0072	0.3958	0.1822	0.2135	-1.8367

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)

PAGE 2 OF 3
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	REYN-6	PHI	CONF	L	DEL1	DEL2	DEL3	DELA	TRANSITION
2	47	0.59	0.4	0.0	03-0P15	0.0	0	0	0	0	FREE

POINT	ALPHA	BETA	CNF1	CM1	CH1	XCPF1	YCPF1	CNF2	CM2	CB2	XCPF2	YCPF2
1	-1.61	0.0	-0.0154	-0.0063	0.0	0.2365	0.0	-0.0478	-0.0042	-0.0221	0.1915	0.4630
2	-0.62	0.0	0.0016	0.0027	-0.0020	0.1350	-1.0195	-0.0172	-0.0043	0.0073	0.2491	-0.4254
3	0.42	0.0	-0.0134	-0.0043	0.0134	0.2365	-0.7561	-0.0019	-0.0016	0.0252	0.9458	-13.6088
4	1.41	0.0	-0.0182	-0.0063	-0.0089	0.2367	0.3782	0.0414	0.0025	0.0380	0.0610	0.9185
5	2.40	0.0	0.0	0.0	0.0138	0.0	0.0138	0.1182	0.0250	0.0160	0.2154	0.1352
6	3.40	0.0	-0.0056	-0.0030	0.0229	0.6167	-3.4244	0.1308	0.0179	0.0540	0.1525	0.4131
7	4.43	0.0	-0.0278	-0.0153	0.0242	0.2365	-0.6921	0.2066	0.0346	0.0582	0.1673	0.2815
8	5.41	0.0	0.0	0.0	-0.0276	0.0	-0.0276	0.2554	0.0392	0.0852	0.1534	0.3336
9	6.39	0.0	0.0	0.0	0.0384	0.0	0.0069	0.2940	0.0418	0.1200	0.1621	0.4082
10	7.42	0.0	-0.0276	-0.0086	-0.0381	0.2365	1.3372	0.3499	0.0501	0.1195	0.1431	0.3416
11	8.42	0.0	-0.0436	-0.0022	-0.0512	0.2365	3.6435	0.4171	0.0584	0.1450	0.1401	0.3477
12	9.41	0.0	0.0092	0.0022	-0.0451	0.2372	-4.9714	0.4580	0.0560	0.1974	0.1223	0.4311
13	10.45	0.0	0.0276	0.0107	-0.0367	0.3258	0.1955	0.5436	0.0752	0.1996	0.1383	0.3671
14	11.44	0.0	-0.0459	-0.0193	-0.0345	0.6113	5.5442	0.5972	0.0802	0.2218	0.1342	0.3714
15	12.46	0.0	0.0183	0.0064	-0.0302	0.2365	-4.9193	0.6451	0.0797	0.2506	0.1255	0.3946
16	13.46	0.0	-0.0091	-0.0022	-0.0172	0.2343	1.8902	0.6835	0.0864	0.2507	0.1235	0.3668
17	14.43	0.0	0.0359	0.0173	-0.0913	0.1617	-2.2878	0.7053	0.0801	0.2734	0.1135	0.3876
18	15.46	0.0	-0.0275	-0.0065	0.0243	0.2346	-0.8822	0.7795	0.0852	0.2883	0.1093	0.3673
19	16.48	0.0	0.0091	0.0073	-0.0509	0.1617	-1.6197	0.8336	0.0881	0.3006	0.1061	0.3819
20	17.45	0.0	0.0092	-0.0014	-0.0151	-0.4276	-4.5758	0.8971	0.0970	0.3079	0.1081	0.3432
21	18.50	0.0	-0.0184	-0.0043	0.0277	0.2346	-1.5116	0.9169	0.0941	0.3540	0.0917	0.3861
22	19.50	0.0	0.0033	-0.0010	-0.0150	-0.4280	-4.5714	0.9518	0.0834	0.3663	0.0877	0.3849

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RATIOS	PHI	CONE	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2	47	0.59	0.4	0.0	83=0F15	0.0	0	0	0	0	FREE

POINT	ALPHA	BETA	CNF3	CM3	CH3	XCPF3	YCPF3	CNF4	CM4	CB4	XCPF4	YCPF4
1	-1.61	0.0	0.0161	-0.0213	0.0056	-0.3562	1.3083	-0.0537	-0.0053	-0.0347	0.0987	0.6457
2	-0.62	0.0	0.0484	0.0217	-0.0107	0.4472	-0.2248	-0.0064	0.0030	-0.0142	-0.4593	2.8305
3	0.42	0.0	0.0152	0.0001	-0.0061	0.5031	-0.3800	-0.0008	0.0004	0.0141	-7.6163	-16.8895
4	1.41	0.0	-0.0020	-0.0250	0.0090	0.5955	-0.2151	0.1281	0.0566	-0.0008	0.4266	-0.0063
5	2.40	0.0	0.0282	0.0100	-0.0092	0.4418	-0.3801	0.1026	0.0249	0.0298	0.2422	0.2888
6	3.40	0.0	-0.0311	-0.0159	0.0187	0.5120	-0.6028	0.1293	0.0335	0.1086	0.2378	0.8465
7	4.43	0.0	0.0191	0.0138	-0.0182	0.4545	-0.7425	0.1867	0.0328	0.0862	0.1746	0.4566
8	5.41	0.0	-0.0029	-0.0051	0.0011	1.7334	-0.3901	0.2023	0.0447	0.1428	0.2209	0.7058
9	6.39	0.0	0.0151	0.0075	-0.0057	0.5212	-0.3798	0.2960	0.0635	0.1278	0.1670	0.4328
10	7.42	0.0	-0.0352	-0.0213	0.0064	0.6059	-0.1822	0.3548	0.0587	0.1746	0.1654	0.4920
11	8.42	0.0	-0.0171	-0.0166	-0.0005	0.6168	0.0275	0.3160	0.0612	0.1797	0.1671	0.4320
12	9.41	0.0	-0.0051	-0.0012	0.0009	0.2301	-1.7505	0.4932	0.0738	0.2056	0.1497	0.4169
13	10.45	0.0	0.0051	0.0012	-0.0019	0.2301	-0.3742	0.5300	0.0753	0.2135	0.1421	0.4486
14	11.44	0.0	0.0305	0.0194	-0.0146	0.5176	-0.3796	0.5589	0.0750	0.3068	0.1342	0.5489
15	12.46	0.0	-0.0543	-0.0361	0.0375	0.5618	-0.3796	0.6915	0.1330	0.2543	0.1923	0.3678
16	13.46	0.0	-0.0190	-0.0061	0.0061	0.5031	-0.3797	0.6692	0.0803	0.2934	0.1199	0.4384
17	14.43	0.0	-0.0112	-0.0024	0.0104	0.2294	-1.0669	0.6936	0.0831	0.3008	0.1198	0.4337
18	15.46	0.0	-0.0242	-0.0122	0.0092	0.5029	-0.3797	0.7788	0.0965	0.3243	0.1110	0.4184
19	16.46	0.0	-0.0123	-0.0028	0.0007	0.2295	-0.3801	0.8237	0.0852	0.3435	0.1034	0.4171
20	17.45	0.0	-0.0272	-0.0151	0.0107	0.5564	-0.3797	0.2775	0.0846	0.3619	0.1010	0.4124
21	18.50	0.0	-0.0182	-0.0041	-0.0076	0.5031	0.4421	0.9148	0.3902	0.3831	0.0986	0.4188
22	19.50	0.0	-0.0453	-0.0216	0.0037	0.4670	-0.0802	0.9576	0.0915	0.3902	0.0956	0.4074

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 3
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	EXIT#	PHI	CONE	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2	4A	0.5#	0.7	0.0	83-0P15	0.0	0	0	0	0	FREE

POINT	ALPHA	SETA	CN	CLN	CY	CLN	CLL	CA	CAB	CAF	ACP
1	-1.e2	[illegible]	-0.13e3	[illegible]	-0.e#30	0.07e0	0.002e	0.3629	0.e993	0.2636	-1.e286
2	-0.60	0.0	-0.e5e1	0.e774	-0.e#e7	0.e#16	0.0056	0.3675	0.0873	0.2e02	-1.3101
3	0.e3	0.e	0.e3e5	-0.e571	-0.e#2e	0.0725	0.0#e3	0.3705	0.0837	0.2868	-1.e5e1
4	1.e3	0.0	0.1014	-0.1350	-0.0e81	0.0#37	0.0031	0.3656	0.0946	0.2709	-1.3313
5	2.e1	0.0	0.25e2	-0.3e38	-0.0e27	0.0731	0.0057	0.3613	0.e999	0.2614	-1.3919
6	3.e3	0.0	0.3652	-0.5601	-0.0#09	0.0#e2	0.0029	0.3607	0.1000	0.2607	-1.5335
7	4.e3	0.e	0.e7e2	-0.7e12	-0.0e17	0.e752	0.05#6	0.3606	0.e958	0.2652	-1.6510
8	5.4#	0.0	0.6393	-1.0036	-0.0783	0.0655	0.0086	0.3583	0.0959	0.2624	-1.6475
9	6.42	0.0	0.75e3	-1.e2e1	-0.e73#	0.0640	0.0099	0.3596	0.1013	0.2583	-1.7e27
10	7.42	0.0	0.9046	-1.0284	-0.0740	0.0674	0.0020	0.3561	0.1102	0.2458	-1.7918
11	8.44	0.0	1.0154	-1.e64#	-0.0810	0.07e2	0.0076	0.3652	0.1134	0.2518	-1.8365
12	9.43	0.0	1.1e52	-2.1743	-0.0956	0.05e7	0.0042	0.3569	0.1185	0.2362	-1.8388
13	10.4#	0.e	1.3#e3	-2.5#2#	-0.e763	0.06e1	0.0055	0.3572	0.12#7	0.2276	-1.8810
14	11.44	0.0	1.53.e	-2.e214	-0.0707	0.05#3	-0.0005	0.3558	0.1342	0.2215	-1.9089
15	12.4#	0.e	1.e71#	-3.1741	-0.0865	0.04e3	0.0116	0.3481	0.1353	0.2129	-1.8989
16	13.50	0.0	1.e5#e	-3.5504	-0.0845	0.04#0	0.0050	0.3239	0.1360	0.1849	-1.9282
17	14.46	0.e	1.e#e5	-3.8#06	-0.0637	0.0257	0.0052	0.3185	0.1384	0.1801	-1.9353
18	15.47	0.0	2.12e4	-4.1342	-0.0569	0.0275	0.0101	0.3204	0.1477	0.1727	-1.9491
19	16.4#	0.e	2.3#1#	-4.e#2#	-0.0#2#	0.e545	0.e12#	0.3306	0.1663	0.1642	-1.9737
20	17.4#	0.0	2.5e73	-4.e575	-0.0553	0.0350	0.0107	0.3346	0.1703	0.1642	-1.9773
21	18.50	0.0	2.7#e2	-5.3562	-0.0507	0.e2#8	0.0187	0.3362	0.1773	0.1589	-1.9777
22	19.52	0.0	2.91e#	-5.7602	-0.0330	-0.003#	0.0197	0.3344	0.1876	0.1468	-1.9748

PARTIAL MISSILE TAIL EFFECTS DATA

TEST PART MACH RE/10**6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION
2 AB 0.5V 0.7 0.0 B3-0F15 0.0 0 0 0 0 FREE

POINT	ALPHA	BETA	CNF1	CM1	CA1	XCPF1	YCPF1	CNF2	CM2	CA2	XCPF2	YCPF2
1	-1.62	0.0	-0.0145	0.0004	-0.0047	-0.0242	0.4984	-0.0089	-0.0102	-0.0262	0.2184	0.5583
2	-0.60	0.0	0.0015	0.0031	-0.0259	1.4754	-18.9334	-0.3171	-0.0648	-0.0031	0.2803	0.1837
3	0.43	0.0	-0.0076	-0.0053	0.0027	0.0621	-0.3786	0.0193	0.0218	-0.0037	0.0938	-0.1889
4	1.43	0.0	0.0035	0.0021	-0.0057	0.6104	-2.7493	0.0629	0.0069	0.0187	0.1098	0.2965
5	2.41	0.0	-0.0075	-0.0035	0.0078	0.0614	-3.7040	0.1012	0.0161	0.0224	0.1590	0.2212
6	3.43	0.0	-0.0056	-0.0018	0.0105	0.2363	-1.8883	0.1414	0.0199	0.0533	0.1407	0.3770
7	4.43	0.0	-0.0123	-0.0044	0.0141	0.1821	-0.3779	0.2097	0.0348	0.0552	0.1642	0.2634
8	5.44	0.0	-0.0075	-0.0005	-0.0097	0.0813	1.2663	0.2601	0.0421	0.0757	0.1618	0.2911
9	6.42	0.0	0.0244	0.0081	-0.0176	0.3019	-0.3780	0.2947	0.0388	0.1177	0.1317	0.3995
10	7.42	0.0	-0.0076	-0.0005	-0.0307	0.0810	0.0596	0.3566	0.0485	0.1339	0.1361	0.3754
11	8.44	0.0	0.0041	0.0035	-0.0369	0.3529	-3.6165	0.4395	0.0625	0.1556	0.1422	0.3548
12	9.43	0.0	-0.0130	-0.0016	-0.0154	0.1359	1.7224	0.4678	0.0596	0.1844	0.1274	0.3941
13	10.44	0.0	-0.0069	0.0005	0.0051	-0.4245	0.5500	0.5397	0.0713	0.1914	0.1322	0.3546
14	11.44	0.0	0.0	0.0	-0.0505	0.0	-0.0505	0.4062	0.0771	0.2235	0.1272	0.3686
15	12.44	0.0	0.0035	0.0022	-0.0517	0.6038	-14.6232	0.6751	0.0870	0.2369	0.1269	0.3509
16	13.50	0.0	0.0111	0.0025	-0.0378	0.2365	-3.4056	0.7556	0.0885	0.2875	0.1171	0.3804
17	14.46	0.0	0.0145	0.0042	-0.0633	0.6120	-11.0742	0.7965	0.0873	0.3031	0.1096	0.3808
18	15.47	0.0	-0.0296	-0.0038	0.0057	0.1356	-0.7181	0.8505	0.0926	0.3040	0.1089	0.3639
19	16.48	0.0	-0.0179	-0.0139	0.0622	1.6428	0.9089	0.8977	0.3260	0.1075	0.3587
20	17.49	0.0	-0.0295	-0.0035	-0.0193	0.1354	0.7422	0.9553	0.0983	0.3424	0.1029	0.3584
21	18.50	0.0	-0.0512	-0.0017	-0.0225	0.1575	0.4540	0.9908	0.0965	0.3522	0.0974	0.3556
22	19.52	0.0	-0.0315	-0.0043	-0.0463	0.1534	1.4714	1.0175	0.0950	0.3582	0.0934	0.3521

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 3 OF 3
SHEET 1 OF 1
HARTIS MISSILE TAIL EFFECTS DATA

TEST FAST MACH RAIGHD PHI CONE L DEL1 DEL2 DEL3 DELA TRANSITION
r 4P 0.50 0.7 0.0 M3.0F15 0.0 0 0 0 0 FREE

POINT	ALPHA	BETA	CNF3	CM3	CH3	XCPF3	YCPF3	CNF4	CM4	CD4	XCPF4	YCPF4
1	-1.62	[illegible]	[illegible]	[illegible]	-0.0123	0.6171	-1.1947	-0.0483	-0.0067	-0.0314	0.1390	0.0518
2	-0.50	0.0	0.0165	0.0006	-0.0047	0.5952	-0.4643	-0.0092	0.0006	-0.0172	-0.0666	1.0790
3	0.03	[illegible]	-0.0162	[illegible]	0.0006	0.5503	-0.3796	0.0175	0.0065	0.0059	0.3728	0.3358
4	1.03	0.0	-0.0151	-0.0064	0.0016	0.5007	-0.1032	0.1026	0.0358	0.0024	0.3492	0.0234
5	2.01	[illegible]	0.0036	0.0022	-0.0055	0.5506	-1.5331	0.1093	0.0255	0.0268	0.2329	0.2638
6	3.03	0.0	-0.0330	-0.0135	0.0063	0.4775	-0.2523	0.1369	0.0307	0.0848	0.2209	0.0185
7	4.03	[illegible]	[illegible]	[illegible]	-0.0078	0.2258	0.1696	0.2016	0.0367	0.0758	0.1814	0.3762
8	5.44	0.0	-0.0158	-0.0078	0.0060	0.4822	-0.3462	0.2359	0.0468	0.1216	0.1986	0.5153
9	6.42	[illegible]	-0.0244	-0.0110	0.0091	0.4536	-0.3797	0.3055	0.0469	0.1299	0.1671	0.4252
10	7.42	0.0	-0.0347	-0.0080	0.0014	0.4113	-0.0933	0.3637	0.0578	0.1657	0.1590	0.4555
11	8.44	0.0	[illegible]	-0.0029	-0.0059	0.4250	0.8713	0.4221	0.0613	0.1765	0.1452	0.4229
12	9.43	0.0	-0.0435	-0.0136	0.0074	0.4440	-0.2421	0.4849	0.0701	0.2016	0.1446	0.4159
13	10.44	[illegible]	[illegible]	[illegible]	0.0089	0.5141	-0.2038	0.5282	0.0718	0.2265	0.1359	0.4289
14	11.44	0.0	-0.0658	0.0001	-0.0063	-0.0649	1.1266	0.5691	0.0738	0.2814	0.1297	0.4945
15	12.44	0.0	-0.0561	-0.0279	0.0169	0.5562	-0.2955	0.6720	0.1067	0.2653	0.1617	0.3948
16	13.50	0.0	-0.0699	0.0016	-0.0073	-0.0755	1.6443	0.7203	0.0834	0.3104	0.1158	0.4308
17	14.46	0.0	-0.0277	-0.0117	0.0063	0.6235	-0.2279	0.7660	0.0865	0.3253	0.1129	0.4247
18	15.47	0.0	-0.0235	-0.0164	0.0149	0.6538	-0.2031	0.8317	0.0896	0.3462	0.1077	0.4162
19	16.48	0.0	[illegible]	-0.0028	-0.0012	0.2243	0.0219	0.8986	0.1923	0.3718	0.1027	0.4138
20	17.49	0.0	-0.0161	-0.0085	0.0012	0.3240	-0.0020	0.9660	0.0947	0.3727	0.0999	0.3931
21	18.50	0.0	[illegible]	-0.0003	-0.0093	0.0637	1.1843	0.9922	0.0894	0.3987	0.0965	0.4018
22	19.52	0.0	-0.0243	-0.0182	0.0009	0.3363	-0.0370	1.0459	0.0916	0.4164	0.0876	0.3981

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	REINOD	RNI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2	49	0.59	1.1	0.0	83.0715	0.0	0	0	0	0	FREE

POINT	ALPHA	BETA	CA	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-1.61	0.0	-0.1603	0.1304	-0.0578	0.0350	0.0023	0.3160	0.0934	0.2226	-1.3265
2	-0.60	0.0	-0.1548	0.0783	-0.0571	0.0406	0.0033	0.3202	0.0937	0.2265	-1.4026
3	0.03	0.0	-0.0143	-0.0153	-0.0551	0.0543	0.0017	0.3145	0.0946	0.2201	-0.7931
4	1.43	0.0	0.1403	-0.1478	-0.0533	0.0405	0.0046	0.3202	0.0974	0.2228	-1.3602
5	2.42	0.0	0.2507	-0.2543	-0.0536	0.0672	0.0051	0.3185	0.0961	0.2223	-1.4093
6	3.44	0.0	0.3610	-0.3581	-0.0556	0.0592	0.0013	0.3153	0.0950	0.2204	-1.5028
7	4.44	0.0	0.4708	-0.4657	-0.0557	0.0613	0.0015	0.3124	0.0945	0.2180	-1.5979
8	5.39	0.0	0.5777	-1.0366	-0.0491	0.0462	0.0023	0.3117	0.0975	0.2142	-1.6719
9	6.45	0.0	0.7754	-1.3801	-0.0459	0.0342	0.0057	0.3143	0.1038	0.2105	-1.7271
10	7.47	0.0	0.9127	-1.6328	-0.0398	0.0373	0.0051	0.3156	0.1111	0.2045	-1.7898
11	8.47	0.0	1.0741	-1.9091	-0.0474	0.0417	0.0023	0.3192	0.1173	0.2019	-1.8519
12	9.46	0.0	1.2276	-2.1121	-0.0414	0.0336	0.0050	0.3176	0.1222	0.1954	-1.8840
13	10.48	0.0	1.4178	-2.3743	-0.0443	0.0343	0.0057	0.3258	0.1280	0.1979	-1.9032
14	11.50	0.0	1.5822	-2.6630	-0.0391	0.0210	0.0094	0.3195	0.1336	0.1864	-1.9099
15	12.51	0.0	1.7334	-2.8326	-0.0357	0.0153	0.0100	0.3193	0.1396	0.1869	-1.9148
16	13.48	0.0	1.9103	-3.0662	-0.0378	0.0234	0.0055	0.3183	0.1476	0.1787	-1.9202
17	14.49	0.0	2.0750	-3.2920	-0.0327	0.0153	0.0091	0.3118	0.1531	0.1587	-1.9183
18	15.50	0.0	2.2476	-3.5467	-0.0272	0.0154	0.0058	0.3040	0.1604	0.1436	-1.9086
19	16.50	0.0	2.4504	-3.7141	-0.0184	-0.0127	0.0036	0.2960	0.1668	0.1292	-1.9211
20	17.50	0.0	2.6644	-4.0984	-0.0225	0.0039	0.0052	0.2800	0.1667	0.1133	-1.9253
21	18.57	0.0	2.7754	-5.2262	-0.0068	-0.0282	0.0126	0.2897	0.1737	0.1160	-1.9315
22	19.56	0.0	2.8965	-5.6513	0.0376	-0.1746	0.0117	0.2843	0.1865	0.0978	-1.9518

ARNOLD ENGINEERING DEVELOPMENT CENTER (AEDC) PROPULSION WIND TUNNEL 4 FACILITY (PWT) AERODYNAMIC WIND TUNNEL (4T)
PAGE 2 OF 3
SHEET 1 OF 1

MANTIS MISSILE TAIL EFFECTS DATA

TEST	PART	SALE	REINOLDS	DMI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2	49	0.25	1.1	0.0	03-0F15	0.0	0	0	0	0	FREE

POINT	ALPHA	BETA	CNF1	CM1	CB1	XCPF1	YCPF1	CNF2	CM2	CB2	XCPF2	YCPF2
1	-1.01	0.0	-0.0263	-0.0233	-0.0145	-1.0930	3.1276	-0.0439	-0.0046	-0.0220	0.1956	0.5008
2	-0.50	0.0	-0.0277	-0.0035	-0.0067	0.1355	0.2621	-0.0155	-0.0044	-0.0056	0.2819	0.3502
3	0.03	0.0	-0.0145	-0.0015	-0.0026	0.1045	0.6370	0.0208	0.0017	-0.0026	0.0610	0.1261
4	1.03	0.0	-0.0135	-0.0015	-0.0168	0.1043	1.2459	0.0571	0.0073	0.0190	0.1271	0.3327
5	2.02	0.0	-0.0171	-0.0063	-0.0178	0.1358	-1.0181	0.1086	0.0196	0.0261	0.1808	0.2409
6	3.04	0.0	-0.0206	-0.0012	-0.0262	0.1355	0.2614	0.1493	0.0236	0.0495	0.1590	0.3303
7	4.03	0.0	-0.0224	-0.0027	-0.0327	0.1154	0.1184	0.1990	0.0301	0.0722	0.1514	0.3627
8	5.34	0.0	-0.0258	-0.0036	-0.0361	0.1535	0.6790	0.2515	0.0381	0.0960	0.1514	0.3737
9	6.05	0.0	-0.0156	-0.0051	-0.0015	0.0862	0.1411	0.3089	0.0435	0.1242	0.1410	0.4020
10	7.07	0.0	-0.0067	0.0011	-0.0266	-0.0194	10.0377	0.3736	0.0529	0.1448	0.1415	0.3874
11	8.07	0.0	-0.0014	0.0032	-0.0307	1.9224	-5.6700	0.4240	0.0615	0.1672	0.1386	0.3766
12	9.06	0.0	-0.0135	-0.0015	-0.0331	0.1064	0.7312	0.4906	0.0640	0.1917	0.1304	0.3907
13	10.08	0.0	-0.0154	-0.0045	-0.0376	0.1656	-0.6024	0.5648	0.0752	0.2067	0.1320	0.3522
14	11.50	0.0	-0.0170	-0.0063	-0.0262	0.0860	4.0635	0.6172	0.0796	0.2357	0.1274	0.3818
15	12.51	0.0	-0.0183	-0.0083	-0.0348	-0.0840	5.1965	0.6730	0.0821	0.2569	0.1220	0.3817
16	13.48	0.0	-0.0164	-0.0116	-0.0146	0.0111	-0.3160	0.7348	0.0874	0.2740	0.1184	0.3729
17	14.49	0.0	-0.0213	-0.0105	-0.0159	-0.0260	12.1298	0.7816	0.0879	0.2937	0.1125	0.3759
18	15.50	0.0	-0.0049	-0.0060	0.0010	0.0815	-0.1007	0.8494	0.0930	0.3205	0.1095	0.3773
19	16.50	0.0	-0.0184	-0.0175	0.0016	0.1420	-0.0255	0.9008	0.0959	0.3417	0.1065	0.3794
20	17.50	0.0	-0.1271	-0.0628	-0.0136	0.1192	0.6157	0.9750	0.1017	0.3551	0.1043	0.3642
21	18.57	0.0	-0.0345	-0.0038	0.0038	0.1237	-0.1048	1.0143	0.0969	0.3510	0.0975	0.3461
22	19.56	0.0	0.0064	0.0042	-0.0410	0.6106	-5.9191	1.0568	0.0886	0.3770	0.0839	0.3567

MAVTI - MISSILE TAIL EFFECTS DATA

TEST	PART	MACH NUMBER	PSI	CONF	L	DEL1	DEL2	DEL3	DELA	TRANSITION
2	4Y	0.5Y 1.1	0.0	>3.0F15	0.0	0	0	0	0	FREE

POINT	ALPHA	PHIA	CNF3	CM3	CA3	XCPF3	YCPF3	CNF4	CM4	CA4	XCPF4	YCPF4
1	-1.01	0.0	-0.[illegible]	-0.[illegible]	0.0[illegible]7	[illegible]5236	-0.1738	-0.5491	-0.0083	-0.0277	0.1680	0.5624
2	-0.80	0.0	-0.[illegible]	-0.[illegible]	0.0[illegible]5	0.5[illegible]6	-0.2360	-0.0095	-0.0006	-0.0155	0.0389	1.6243
3	0.43	0.0	-0.[illegible]	-0.[illegible]	-0.0[illegible]6	0.0[illegible]9	0.1429	0.0251	0.0073	0.0040	0.2893	0.1569
4	1.43	0.0	-0.[illegible]	-0.1[illegible]	0.0074	0.5364	-0.2173	0.0907	0.0296	0.0091	0.3259	0.1006
5	2.42	0.0	-0.[illegible]	-0.[illegible]	-0.0029	2.5977	-7.[illegible]58	0.1058	0.0225	0.0332	0.2127	0.3140
6	3.44	0.0	-0.[illegible]	-0.[illegible]	0.0052	[illegible].4516	-0.2632	0.1444	0.0285	0.0731	0.1970	0.5048
7	4.44	0.0	-0.[illegible]	-0.[illegible]	-0.6003	[illegible].3572	[illegible].0239	0.2048	0.0358	0.0765	0.1738	0.3735
8	5.39	0.0	-0.[illegible]	.[illegible]261	-0.6015	-0.0394	0.4663	0.2381	0.0430	0.1172	0.1807	0.4922
9	6.45	0.0	-0.[illegible]	-0.[illegible]177	0.0105	0.5[illegible]0	-0.3006	0.3136	0.0478	0.1398	0.1512	0.4171
10	7.47	0.0	-0.[illegible]	-0.[illegible]097	0.0032	0.4211	-0.1364	0.3759	0.0568	0.1672	0.1512	0.4448
11	8.47	0.0	-0.[illegible]	-0.[illegible]105	-0.[illegible]42	0.[illegible]951	0.5278	0.4373	0.0625	0.1856	0.1429	0.4243
12	9.46	0.0	-0.[illegible]	-0.[illegible]125	0.0056	0.4510	-0.1802	0.4968	0.0679	0.2141	0.1366	0.4309
13	10.46	0.0	-0.[illegible]	-0.[illegible]e3	-0.0[illegible]	0.3[illegible]3	0.1294	0.5567	0.0736	0.2327	0.1317	0.4184
14	11.50	0.0	0.[illegible]7	0.[illegible]0	-0.0[illegible]	3.[illegible]7[illegible]	-11.[illegible]	0.5894	0.0746	0.2764	0.1264	0.4686
15	12.51	0.0	-0.[illegible]	-0.[illegible]121	0.[illegible]	0.[illegible]	-0.1681	0.6702	0.[illegible]	0.2718	0.1471	0.4855
16	13.48	0.0	-0.[illegible]	-0.[illegible]021	-0.0020	0.2290	0.2147	0.7091	0.0829	0.3005	0.1169	0.4237
17	14.49	0.0	-0.[illegible]	-0.[illegible]002	0.0024	0.3971	-0.1157	0.7520	0.[illegible]	0.3195	0.1124	0.4249
18	15.54	0.0	-0.[illegible]	-0.[illegible]094	0.0035	0.3770	-0.1468	0.8268	0.0902	0.3432	0.1091	0.4151
19	16.54	0.0	-0.[illegible]	0.[illegible]	-0.[illegible]	-0.[illegible]	0.3312	0.8906	0.0929	0.3657	0.1043	0.4106
20	17.50	0.0	-0.[illegible]	-0.[illegible]042	0.0[illegible]7	0.3498	-0.2604	0.9543	0.0962	0.3876	0.1008	0.4060
21	18.57	0.0	-0.[illegible]	-0.[illegible]ue2	0.0[illegible]22	0.[illegible]7	-0.[illegible]	0.9948	0.0939	0.4063	0.0939	0.3963
22	19.56	0.0	-0.0372	-0.3164	0.0056	0.4408	-0.2317	1.0617	0.0933	0.4215	0.0878	0.3970

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 3
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RN/L=6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2	50	0.59	3.4	0.0	B3=0F15	0.0	0	0	0	0	FREE

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	ACP
1	-1.43	0.0	-0.1347	0.1475	+0.0133	0.0041	0.0016	0.2638	0.1046	0.1584	-1.5114
2	-0.58	0.0	-0.0237	0.1472	-0.0114	0.0101	0.0002	0.2611	0.1040	0.1571	-1.9958
3	0.42	0.0	0.0762	+0.0884	+0.0134	0.2148	0.0021	0.2608	0.1078	0.1531	-1.2027
4	1.45	0.0	0.1965	-0.2414	+0.0049	0.0040	0.0035	0.2576	0.1059	0.1517	-1.3254
5	2.47	0.0	0.2890	+0.3472	+0.0107	0.0127	0.0027	0.2556	0.1055	0.1501	-1.3888
6	3.50	0.0	0.4178	-0.5367	+0.0077	0.0077	0.0029	0.2545	0.1094	0.1451	-1.5128
7	4.51	0.0	0.5495	+0.6813	+0.0056	0.0035	0.0043	0.2535	0.1069	0.1466	-1.5965
8	5.52	0.0	0.6752	-1.1276	+0.0062	0.0024	0.0041	0.2595	0.1109	0.1486	-1.6619
9	6.57	0.0	0.8245	+1.0866	+0.0076	0.0056	0.0026	0.2626	0.1186	0.1443	-1.7457
10	7.59	0.0	0.9845	-1.2706	+0.0064	0.0130	0.0072	0.2661	0.1244	0.1418	-1.8075
11	8.62	0.0	1.1555	+1.4834	+0.0037	0.0063	0.0060	0.2660	0.1278	0.1381	-1.8527
12	9.63	0.0	1.3245	-1.6947	+0.0028	0.0026	0.0081	0.2654	0.1332	0.1322	-1.8868
13	10.62	0.0	1.5167	+1.9179	+0.0043	0.0029	0.0112	0.2649	0.1398	0.1254	-1.9033
14	11.67	0.0	1.7134	-2.2447	+0.0041	0.0061	0.0139	0.2650	0.1457	0.1193	-1.9196
15	12.67	0.0	1.9338	+2.5523	+0.0031	0.0127	0.0091	0.2599	0.1491	0.1108	-1.9264
16	13.75	0.0	2.1854	-2.8584	+0.0021	0.0021	0.0061	0.2581	0.1576	0.1004	-1.9146
17	14.71	0.0	2.4255	+3.1514	+0.0002	0.0016	0.0064	0.2546	0.1622	0.0925	-1.9066
18	15.83	0.0	2.6529	-3.4513	0.0020	+0.0030	0.0094	0.2542	0.1686	0.0856	-1.8962
19	16.88	0.0	2.9310	+3.7522	0.0009	+0.0059	0.0081	0.2598	0.1737	0.0757	-1.8824
20	17.87	0.0	3.1982	-4.0394	0.0044	-0.0008	0.0074	0.2670	0.1820	0.0651	-1.8584
21	18.93	0.0	3.4834	-4.3514	0.0097	-0.0153	0.0081	0.2807	0.1899	0.0548	-1.8297
22	19.95	0.0	3.7144	-4.6013	0.0201	-0.0416	0.0133	0.2479	0.2031	0.0448	-1.8048

PARTIAL MISSILE TAIL EFFECTS DATA

TEST	PART	MACH NUMB	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2	59	0.59	3.0	0.0	B3A0F15	0.0	0	0	0	0	FREE

POINT	ALPHA	BETA	CNF1	CM1	CH1	*CPF1	YCPF1	CNF2	CM2	CB2	YCPF2	YCPF2
1	-1.53	0.0	-0.0039	0.0062	-0.0063	-0.0233	0.4451	-0.0098	-0.0093	-0.0225	0.1866	0.4516
2	-0.54	0.0	-0.0043	0.0011	-0.0042	-0.2591	0.9748	-0.0124	-0.0036	-0.0022	0.2897	0.1728
3	0.42	0.0	-0.0048	0.0018	-0.0017	-0.1536	0.2617	0.0272	0.0040	0.0091	0.1464	0.3352
4	1.45	0.0	-0.0053	0.0030	-0.0029	-0.1530	0.5472	0.0615	0.0086	0.0241	0.1390	0.3914
5	2.47	0.0	-0.0035	0.0015	-0.0044	-0.1586	1.2401	0.1043	0.0163	0.0411	0.1560	0.3939
6	3.50	0.0	-0.0049	0.0036	-0.0047	-0.1530	0.9554	0.1510	0.0221	0.0662	0.1466	0.4387
7	4.51	0.0	-0.0044	0.0050	-0.0018	-0.1365	0.2872	0.2076	0.0315	0.0825	0.1515	0.3968
8	5.52	0.0	-0.0035	0.0067	-0.0027	-0.2101	2.2344	0.2640	0.0379	0.1096	0.1434	0.4152
9	6.57	0.0	-0.0013	0.0013	-0.0012	-0.0777	0.0063	0.3255	0.0451	0.1364	0.1385	0.4192
10	7.54	0.0	-0.0034	0.0064	-0.0054	-0.2340	1.5424	0.3899	0.0530	0.1632	0.1361	0.4187
11	8.56	0.0	-0.0030	0.0033	-0.0043	-0.2347	1.1172	0.4530	0.0589	0.1914	0.1300	0.4224
12	9.63	0.0	-0.0020	0.0010	-0.0009	-0.2200	0.1314	0.5134	0.0643	0.2174	0.1252	0.4234
13	10.62	0.0	-0.0020	0.0017	-0.0016	-0.2138	0.7503	0.5777	0.0692	0.2416	0.1198	0.4183
14	11.67	0.0	-0.0012	0.0005	-0.0014	-0.2262	10.0647	0.6491	0.0752	0.2674	0.1159	0.4120
15	12.67	0.0	-0.0052	0.0031	-0.0111	-0.0115	2.1363	0.7075	0.0783	0.2913	0.1107	0.4117
16	13.75	0.0	-0.0071	-0.0006	-0.0077	0.0096	1.0236	0.7813	0.0843	0.3135	0.1079	0.4018
17	14.77	0.0	-0.0085	-0.0017	-0.0124	0.0041	1.4615	0.8361	0.0878	0.3304	0.1058	0.3957
18	15.83	0.0	-0.0054	0.0033	-0.0056	0.2346	-0.3747	0.9005	0.0923	0.3499	0.1025	0.3886
19	16.88	0.0	-0.0124	0.0075	-0.0065	0.2356	-0.3796	0.9561	0.0965	0.3699	0.1011	0.3877
20	17.87	0.0	-0.0099	0.0044	-0.0058	0.2356	-0.3791	0.9971	0.0995	0.3855	0.0997	0.3866
21	18.93	0.0	-0.0085	0.0041	-0.0053	0.2356	-0.3788	1.0418	0.1006	0.3961	0.0966	0.3892
22	19.95	0.0	-0.0093	0.0036	-0.0056	0.2356	-0.3790	1.0731	0.1003	0.3972	0.0935	0.3702

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 3 OF 3
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	REYNO	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2	50	0.64	3.4	0.0	63+0F15	0.0	0	0	0	0	FREE

POINT	ALPHA	BETA	CNF3	CM3	C63	XCPF3	YCPF3	CNF4	CM4	C64	XCPF4	YCPF4
1	-1.64	0.0	-0.0046	-0.0041	0.0002	0.2274	-0.3779	-0.0413	-0.0060	-0.0237	0.1452	0.5725
2	-0.56	0.0	0.0034	0.0032	-0.0007	0.7657	-0.1654	-0.0044	0.0006	-0.0042	-0.1346	1.8589
3	0.42	0.0	-0.0047	-0.0019	0.0018	0.3979	-0.3663	0.0383	0.0067	0.0697	0.2208	0.3198
4	1.45	0.0	-0.0149	-0.0078	0.0065	0.5073	-0.4348	0.0765	0.0171	0.0238	0.2177	0.3035
5	2.47	0.0	-0.0289	-0.0117	0.0127	0.3305	-0.5479	0.1133	0.0196	0.0457	0.1729	0.4038
6	3.50	0.0	-0.0426	-0.0150	0.0057	0.4341	-0.4443	0.1627	0.0272	0.0764	0.1680	0.4708
7	4.51	0.0	-0.0567	-0.0229	0.0134	0.2622	-0.5123	0.2334	0.0932	0.1575	0.4390
8	5.52	0.0	-0.0743	-0.0285	0.0131	0.3243	-0.3001	0.2641	0.0419	0.1205	0.1588	0.4564
9	6.57	0.0	-0.0926	-0.0334	0.0025	0.3545	-0.2839	0.3305	0.0463	0.1491	0.1408	0.4510
10	7.59	0.0	-0.0984	-0.1036	0.0917	0.4066	-0.1935	0.3919	0.0535	0.1804	0.1366	0.4604
11	8.62	0.0	-0.1096	-0.0929	0.0614	0.3157	-0.1964	0.4545	0.0589	0.2097	0.1296	0.4592
12	9.63	0.0	-0.1194	-0.0852	0.0544	0.3427	-0.3199	0.5171	0.0650	0.2354	0.1258	0.4552
13	10.62	0.0	-0.1294	-0.0733	0.0424	0.3381	-0.2961	0.5775	0.0691	0.2668	0.1196	0.4585
14	11.67	0.0	-0.1394	-0.1065	0.0701	0.1151	-0.0217	0.6422	0.0734	0.2991	0.1143	0.4657
15	12.67	0.0	-0.1503	-0.0984	0.0656	0.4216	-0.3240	0.7086	0.0829	0.3127	0.1171	0.4414
16	13.75	0.0	-0.1614	-0.1021	0.0614	0.2626	-0.1728	0.7631	0.0813	0.3376	0.1065	0.4424
17	14.77	0.0	-0.1741	-0.1020	0.0635	0.2565	-0.3764	0.8170	0.0844	0.3588	0.1033	0.4392
18	15.83	0.0	-0.1913	-0.1034	0.0835	0.3453	-0.3067	0.8845	0.0845	0.3798	0.1012	0.4294
19	16.88	0.0	-0.2081	-0.1014	0.0823	0.2269	-0.2774	0.9387	0.0927	0.3967	0.0992	0.4264
20	17.87	0.0	-0.2263	-0.1004	0.0846	0.3373	-0.3272	0.9794	0.0961	0.4107	0.0981	0.4191
21	18.93	0.0	-0.2425	-0.1034	0.0834	0.2769	-0.3144	1.0256	0.0971	0.4166	0.0967	0.4082
22	19.95	0.0	-0.2559	-0.1055	0.0852	0.3449	-0.3281	1.0677	0.0954	0.4308	0.0894	0.4028

MARTIN MISSILE TAIL EFFECTS DATA

TEST PART	MACH NUMBER	PHI	CONE	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
4	57 0.60 2.5	0.0	B3=0F15	0.0	0	0	0	0	FREE

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	ACP
1	-1.66	0.0	-0.1241	0.0023	-0.0144	0.0017	-0.0010	0.2908	0.1171	0.1737	-1.5781
2	-0.64	0.0	-0.0307	0.0045	-0.0145	0.0110	0.0011	0.2894	0.1154	0.1740	-1.8748
3	0.43	0.0	0.0784	-0.0010	-0.0102	0.0034	0.0025	0.2884	0.1156	0.1708	-1.0897
4	1.42	0.0	0.1714	-0.0260	-0.0114	0.0043	0.0032	0.2865	0.1097	0.1768	-1.3276
5	2.47	0.0	0.2436	-0.0437	-0.0155	0.0140	0.0022	0.2837	0.1174	0.1663	-1.4917
6	3.48	0.0	0.3194	-0.0659	-0.0151	0.0146	0.0036	0.2827	0.1144	0.1663	-1.5839
7	5.48	0.0	0.4335	-0.1223	-0.0117	0.0171	0.0044	0.2836	0.1184	0.1652	-1.7604
8	9.46	0.0	1.3557	-2.0963	-0.0029	-0.0062	0.0092	0.2906	0.1454	0.1465	-1.9742
9	13.76	0.0	2.1395	-4.2341	0.0034	-0.0136	0.0099	0.2877	0.1447	0.1230	-1.9850
10	17.84	0.0	2.9320	-6.5797	0.0172	-0.0543	0.0041	0.2804	0.1765	0.1079	-1.9025
11	19.95	0.0	3.2376	-8.1293	0.0125	-0.0246	0.0245	0.2814	0.1935	0.0879	-1.8364
12	25.21	0.0	4.3544	-8.9284	0.0120	-0.0282	-0.0237	0.2645	0.2284	0.0362	-1.5905
13	27.47	0.0	4.8331	-7.2103	0.0524	-0.1735	-0.0174	0.2593	0.2545	0.0008	-1.4919

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)

MANTIS MISSILE TAIL EFFECTS DATA

TEST PART	MACH NO.	PHI	CONF	L	DEL1	DEL2	DEL3	DELA	TRANSITION
2	57 0.60 2.5	0.0	03-0P15	0.0	0	0	0	0	FREE

POINT	ALPHA	PITA	CNF1	CM1	CD1	ACPF1	YCPF1	CNF2	CM2	CD2	XCPF2	YCPF2
1	-1.56	0.0	-0.0115	-0.0010	-0.0003	0.1351	0.0214	-0.0531	-0.0101	-0.0246	0.1405	0.5539
2	-0.04	0.0	-0.0004	-0.0010	0.0003	0.1048	-0.4830	-0.5141	-0.0035	-0.0114	0.2462	0.8074
3	0.43	0.0	-0.0131	-0.0028	0.0033	0.1602	-0.2563	0.0225	0.0029	0.0030	0.1288	0.1340
4	1.42	0.0	-0.0114	-0.0018	0.0043	0.1357	-0.3785	0.0633	0.0098	0.0171	0.1557	0.2710
5	2.47	0.0	-0.0044	-0.0015	-0.0035	0.1481	0.5572	0.1098	0.0172	0.0367	0.1562	0.3344
6	3.46	0.0	-0.0135	-0.0023	0.0005	0.1724	-0.0370	0.1587	0.0246	0.0561	0.1563	0.3534
7	5.05	0.0	-0.0108	-0.0018	0.0017	0.2026	-0.1026	0.2706	0.0403	0.1051	0.1569	0.3829
8	6.60	0.0	-0.0106	-0.0025	0.0064	0.2361	-0.6303	0.5356	0.0655	0.2132	0.1223	0.3983
9	13.70	0.0	-0.0116	-0.0020	-0.0000	0.2113	0.3645	0.7917	0.0807	0.3045	0.1019	0.3846
10	17.00	0.0	-0.0115	-0.0034	0.0018	0.3369	-0.1409	1.0168	0.0825	0.3760	0.0811	0.3698
11	19.95	0.0	-0.0114	-0.0047	-0.0010	0.3398	0.0796	1.0672	0.0732	0.3807	0.0686	0.3567
12	25.21	0.0	-0.0060	-0.0064	-0.0024	0.1952	0.0681	1.2124	0.0569	0.4228	0.0469	0.3487
13	27.61	0.0	-0.0254	-0.0090	-0.0010	0.1818	0.0378	1.2605	0.0482	0.4371	0.0383	0.3468

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)

PAGE 3 OF 3
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	PRESS	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2	57	0.60	2.5	0.0	P3=OF15	0.0	0	0	0	0	FREE

POINT	ALPHA	BETA	CNF3	CM3	CA3	XCPF3	YCPF3	CNF4	CM4	CA4	XCPF4	YCPF4
1	-1.56	0.0	-0.0134	-0.0052	0.0003	0.3865	-0.0253	-0.0436	+0.0070	-0.0264	0.1610	0.6049
2	-0.58	0.0	-0.0127	-0.0047	0.0003	0.3854	-0.0226	-0.0091	-0.0006	-0.0102	0.0926	1.1184
3	0.43	0.0	-0.0135	-0.0046	-0.0006	0.3587	0.0281	0.0316	0.0070	0.0044	0.2211	0.1483
4	1.42	0.0	-0.0141	-0.0050	-0.0002	0.3537	0.0121	0.0661	0.0117	0.0268	0.1770	0.4053
5	2.47	0.0	-0.0134	-0.0052	-0.0003	0.3777	0.0202	0.1131	0.0192	0.0469	0.1693	0.4144
6	3.46	0.0	-0.0134	-0.0053	-0.0009	0.3941	0.0572	0.1642	0.0269	0.0658	0.1640	0.4192
7	5.46	0.0	-0.0134	-0.0052	-0.0018	0.3965	0.1195	0.2760	0.0458	0.1224	0.1677	0.4434
8	9.46	0.0	-0.0137	-0.0054	-0.0015	0.3279	0.0841	0.5264	0.0427	0.2442	0.1191	0.4638
9	13.76	0.0	-0.0134	-0.0063	-0.0008	0.3151	0.0398	0.7738	-0.0736	0.3423	0.0949	0.4424
10	17.84	0.0	-0.0204	-0.0061	-0.0014	0.3017	0.0681	0.9801	0.0771	0.4046	0.0786	0.4169
11	19.95	0.0	-0.0267	-0.0078	-0.0018	0.3006	0.0665	1.0804	0.0716	0.4365	0.0661	0.4059
12	25.21	0.0	-0.0204	-0.0074	0.0012	0.2946	-0.0464	1.1105	0.0380	0.4311	0.0342	0.3881
13	27.47	0.0	-0.0216	-0.0076	-0.0062	0.3245	0.0047	1.1151	0.0303	0.4281	0.0271	0.3839

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 3 MARTIN MISSILE TAIL EFFECTS DATA
SHEET 1 OF 1

TEST	PART	MACH	REYNO/M	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2	58	0.85	2.5	0.0	B3V0F15	0.0	0	0	0	0	FREE

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-1.03	0.0	-0.1304	0.2134	-0.0002	-0.0018	-0.0002	0.2936	0.1131	0.1805	-1.5369
2	-0.54	0.0	-0.0350	0.0704	-0.0077	0.0023	-0.0010	0.2918	0.1100	0.1818	-1.9748
3	0.02	0.0	0.0393	-0.0538	-0.0125	0.0120	-0.0005	0.2931	0.1131	0.1800	-0.8126
4	1.04	0.0	0.1495	-0.2200	-0.0054	0.0013	0.0003	0.2900	0.1118	0.1782	-1.3102
5	2.07	0.0	0.2927	-0.4263	-0.0075	0.0020	0.0013	0.2918	0.1163	0.1771	-1.4564
6	3.07	0.0	0.4112	-0.6068	-0.0045	-0.0016	0.0017	0.2907	0.1171	0.1736	-1.5730
7	5.04	0.0	0.7024	-1.0537	0.0011	-0.0161	0.0033	0.2915	0.1143	0.1772	-1.7849
8	9.00	0.0	1.3475	-2.0720	0.0055	-0.0150	0.0053	0.3027	0.1414	0.1613	-2.0125
9	13.04	0.0	2.1775	-3.3468	0.0056	-0.0146	0.0088	0.2985	0.1651	0.1334	-2.0418
10	17.07	0.0	2.9940	-5.0375	0.0250	-0.0835	0.0014	0.2937	0.1828	0.1109	-1.9198
11	19.07	0.0	3.4043	-5.2558	0.0228	-0.0367	0.0161	0.2924	0.1953	0.0972	-1.8372
12	25.26	0.0	4.6234	-6.8211	0.0459	-0.1527	-0.0541	0.2918	0.2549	0.0369	-1.5419
13	27.57	0.0	5.0247	-7.4437	0.0467	-0.1675	-0.0330	0.2867	0.2736	0.0071	-1.4289

HARPIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RALG	PHI	CONF	L	DEL1	DEL2	DEL3	DELA	TRANSITION
2	5A	0.60	2.5	0.0	H3-0F15	0.0	0	0	0	0	FREE

POINT	ALPHA	-ETA	CNF1	CM1	CA1	XCPF1	YCPF1	CNF2	CM2	CA2	XCPF2	YCPF2
1	-1.63	0.0	-0.0[illegible]3	-0.[illegible]46	0.[illegible]0a	1.2[illegible]3	-0.5708	-0.[illegible]45R	-0.[illegible]45	-0.0365	0.2111	0.6940
2	-0.44	0.0	-0.0[illegible]3	-0.[illegible]3e	0.[illegible]e7	0.2[illegible]4	-0.0762	-0.0116	-0.[illegible]37	-0.0162	0.3231	1.5669
3	0.82	0.0	-0.[illegible]21c	-0.[illegible]46	0.0612	0.2111	-0.0550	0.[illegible]2e5	0.0030	-0.0050	0.1238	-0.2028
4	1.44	0.0	-0.0186	-0.[illegible]32	0.0369	0.2017	-0.4330	0.0631	0.0041	0.0110	0.1469	0.1760
5	2.47	0.0	-0.[illegible]2e3	-0.[illegible]e45	0.0851	0.2227	-0.2475	0.1389	0.[illegible]175	0.0281	0.1608	0.2586
6	3.47	0.0	-0.[illegible]2e3	-0.[illegible]e45	0.[illegible]92e	0.2240	-0.1165	0.1595	0.0251	0.0468	0.1583	0.3080
7	5.[illegible]	0.0	-0.[illegible]e7	-0.[illegible]ee	-0.[illegible]e27	0.23e7	-0.1421	0.2776	0.0494	0.1002	0.1457	0.3612
8	6.[illegible]	0.0	-0.[illegible]e3	-0.[illegible]37	0.0107	0.2755	-0.7476	0.4477	0.0563	0.2105	0.1210	0.3844
9	13.76	0.0	-0.[illegible]e2	-0.[illegible]e6	-0.[illegible]02e	0.2520	-0.1536	0.[illegible]e5	0.0772	0.3067	0.0968	0.3765
10	17.87	0.0	-0.[illegible]e7	-0.[illegible]e57	0.[illegible]e54	0.3[illegible]6	-0.3780	1.0339	0.0796	0.3732	0.0761	0.3609
11	19.97	0.0	-0.[illegible]221	-0.[illegible]e0e	-0.[illegible]e1e4	0.2746	-0.4979	1.[illegible]e0e	0.0699	0.3772	0.0647	0.3498
12	25.26	0.0	-0.[illegible]3c0	-0.[illegible]e40	0.[illegible]e10	0.2[illegible]4	-0.3240	1.2316	0.05e7	0.4231	0.0444	0.3435
13	27.57	0.0	-0.[illegible]245	-0.[illegible]e7e	0.[illegible]e59	0.2755	-0.193e	1.2272	0.[illegible]376	0.4164	0.0306	0.3393

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 3 OF 3
SHEET 1 OF 1
PART I. MISSILE TAIL EFFECTS DATA

TEST	FACT	MACH	RN/L=6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2	SW	0.85	2.5	0.0	M3&OF15	0.0	0	0	0	0	FREE

POINT	ALPHA	BETA	CNF3	CM3	CN3	ACPF3	YCPF3	CNF4	CM4	CP4	XCPF4	YCPF4
1	-1.03	0.0	-0.0[illegible]	-0.[illegible]	-0.[illegible]	0.[illegible]	0.2511	-0.0423	-0.0[illegible]	-0.0241	0.1482	0.5708
2	-0.59	0.0	-0.0177	-0.[illegible]	-0.0039	0.3477	0.2178	-0.0053	-0.0006	-0.0005	0.1157	1.6023
3	0.02	0.0	-0.0175	-0.0071	-0.0069	0.4082	0.2771	0.0300	0.0061	0.0079	0.2024	0.2625
4	1.46	0.0	-0.0156	-0.0071	-0.0036	0.3807	0.1926	0.0666	0.0114	0.0272	0.1708	0.4087
5	2.47	0.0	-0.0176	-0.0074	-0.0041	0.4016	0.2080	0.1162	0.0201	0.0454	0.1728	0.3988
6	3.47	0.0	-0.0167	-0.0075	-0.0062	0.3916	0.2147	0.1656	0.0271	0.0695	0.1636	0.4196
7	5.49	0.0	-0.[illegible]	-0.[illegible]	-0.[illegible]	0.3763	0.2173	0.2806	0.0414	0.1238	0.1474	0.4412
8	9.50	0.0	-0.0277	-0.0077	-0.0046	0.3407	0.2048	0.5392	0.0432	0.2490	0.1171	0.4618
9	13.70	0.0	-0.0[illegible]	-0.[illegible]	-0.0045	0.3267	0.1965	0.7972	0.0702	0.3527	0.0881	0.4424
10	17.87	0.0	-0.0[illegible]	-0.0083	-0.0044	0.3903	0.1857	0.6487	0.0718	0.4074	0.0726	0.4121
11	19.97	0.0	-0.0[illegible]	-0.[illegible]	-0.0037	0.3459	0.1313	1.0828	0.0958	0.4331	0.0606	0.4088
12	25.28	0.0	-0.[illegible]	-0.0100	-0.0015	0.3465	0.0510	1.0740	0.0339	0.4020	0.0315	0.3743
13	27.47	0.0	-0.[illegible]	-0.[illegible]	-0.[illegible]	0.3467	0.0581	1.0992	0.0260	0.4263	0.0219	0.3879

MAPTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RNX10**6	RNI	CONF	L	DEL1	DEL2	DEL3	DELA	TRANSITION
2	59	0.62	2.5	0.0	M3WF15	0.0	0	0	0	0	FREE

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	ACP
1	-1.63	0.0	-0.1350	0.1864	-0.1355	-0.0028	-0.0038	0.3206	0.1090	0.2116	-1.3587
2	-0.61	0.0	-0.0250	0.0057	-0.0055	-0.0059	-0.0050	0.3201	0.1119	0.2082	-1.5757
3	0.39	0.0	0.0547	-0.0607	0.0030	-0.0113	-0.0036	0.3209	0.1105	0.2105	-0.6814
4	1.46	0.0	0.1644	-0.1929	0.0950	-0.0147	-0.0025	0.3186	0.1087	0.2099	-1.1387
5	2.47	0.0	0.2856	-0.3462	0.0005	-0.0118	-0.0016	0.3176	0.1116	0.2060	-1.3638
6	3.49	0.0	0.4156	-0.5221	-0.0026	-0.0087	-0.0012	0.3163	0.1131	0.2032	-1.5176
7	5.53	0.0	0.7116	-0.9044	0.002	-0.0113	-0.0001	0.3203	0.1126	0.2077	-1.7753
8	9.59	0.0	1.4356	-2.0432	0.0012	-0.0074	0.0036	0.3328	0.1416	0.1911	-2.0772
9	13.69	0.0	2.2941	-3.2881	0.0060	-0.0025	0.0062	0.3333	0.1637	0.1696	-2.1231
10	17.80	0.0	3.1664	-4.3387	0.0281	-0.0775	-0.0007	0.3208	0.1790	0.1418	-2.0016
11	19.88	0.0	3.5727	-4.7148	0.0184	-0.0195	0.0072	0.3259	0.2108	0.1152	-1.8787
12	25.40	0.0	4.6551	-6.4486	0.0774	-0.2743	-0.0722	0.3396	0.2714	0.0692	-1.4905
13	27.76	0.0	5.1571	-7.0411	0.0445	-0.2420	-0.0186	0.3433	0.3116	0.0317	-1.2975

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 2 OF 3
SHEET 1 OF 1
WANTI - MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RNLB	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2	59	0.62	2.5	0.0	M3-OF15	0.0	0	0	0	0	FREE

POINT	ALPHA	BETA	CNF1	CM1	CA1	XCPF1	YCPF1	CNF2	CM2	CA2	XCPF2	YCPF2
1	-1.63	0.0	-0.0282	-0.0163	0.0113	0.2248	-0.5841	-0.0416	-0.0116	-0.0368	0.2770	0.9266
2	-0.91	0.0	-0.0240	-0.0097	0.0092	0.2477	-0.3433	-0.0094	-0.0048	-0.0211	0.5091	2.2399
3	0.39	0.0	-0.0217	-0.0038	0.0057	0.2455	-0.2628	0.0242	0.0037	-0.0069	0.1521	-0.0114
4	1.46	0.0	-0.0191	-0.0050	0.0047	0.2642	-0.5094	0.0615	0.0115	0.0053	0.1873	0.1017
5	2.47	0.0	-0.0149	-0.0053	0.0058	0.2765	-0.2939	0.1067	0.0201	0.0227	0.1881	0.2128
6	3.49	0.0	-0.0236	-0.0081	0.0131	0.2569	-0.1295	0.1561	0.0281	0.0448	0.1799	0.2873
7	5.53	0.0	-0.0325	-0.0109	0.0208	0.2555	-0.2481	0.2821	0.0470	0.1044	0.1665	0.3362
8	9.59	0.0	-0.0197	-0.0055	0.0175	0.2746	-0.3782	0.5635	0.0705	0.2094	0.1252	0.3716
9	13.69	0.0	-0.0239	-0.0052	0.0193	0.2347	-0.1979	0.8410	0.0695	0.3125	0.0826	0.3716
10	17.86	0.0	-0.0143	-0.0072	0.0073	0.3760	-0.3782	1.0780	0.0632	0.3419	0.0586	0.3636
11	19.98	0.0	-0.0334	-0.0171	0.0169	0.2126	-0.0765	1.1229	0.0616	0.3928	0.0549	0.3698
12	25.40	0.0	-0.0216	-0.0349	0.0314	0.4575	-0.6495	1.2697	0.0467	0.4352	0.0368	0.3429
13	27.76	0.0	-0.0251	-0.0377	0.0405	0.2739	-0.1710	1.1925	0.0263	0.4013	0.0220	0.3365

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	REYNOLDS	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2	59	0.92	2.5	0.0	W3WF15	0.0	0	0	0	0	FREE

POINT	ALPHA	BETA	CNF3	CM3	CB3	XCPF3	YCPF3	CNF4	CM4	CB4	XCPF4	YCPF4
1	-1.64	0.0	-0.0132	-0.0058	-0.0053	0.3370	0.2736	-0.0373	-0.0098	-0.0288	0.2561	0.6640
2	-0.91	0.0	-0.0216	-0.0087	-0.0064	0.4256	0.2340	-0.0328	-0.0089	-0.0098	0.3135	0.4733
3	0.43	0.0	-0.0204	-0.0134	-0.0134	0.3387	0.2385	0.0293	0.0075	0.0087	0.2568	0.1586
4	1.06	0.0	-0.0230	-0.0099	-0.0038	0.4250	0.1659	0.0659	0.0146	0.0239	0.2209	0.3626
5	2.47	0.0	-0.0221	-0.0093	-0.0051	0.4124	0.2347	0.1140	0.0239	0.0416	0.2093	0.3652
6	3.49	0.0	-0.0234	-0.0095	-0.0053	0.3962	0.2226	0.1632	0.0313	0.0606	0.1916	0.4078
7	5.53	0.0	-0.0227	-0.0092	-0.0057	0.4163	0.2522	0.2665	0.0472	0.1219	0.1659	0.4283
8	6.59	0.0	-0.0207	-0.0099	-0.0059	0.3660	0.2212	0.3538	0.0665	0.2523	0.1201	0.4556
9	13.09	0.0	-0.0214	-0.0107	-0.0050	0.3803	0.1583	0.5250	0.0614	0.3577	0.0765	0.4336
10	17.46	0.0	-0.0229	-0.0098	-0.0046	0.3274	0.1541	1.0323	0.0599	0.4307	0.0580	0.4172
11	19.98	0.0	-0.0336	-0.0135	-0.0043	0.3164	0.1249	1.0977	0.0562	0.4433	0.0494	0.4039
12	25.40	0.0	-0.0309	-0.0117	-0.0017	0.3767	0.0584	1.1446	0.0240	0.5963	0.0230	0.3813
13	27.76	0.0	-0.0352	-0.0125	-0.0065	0.3625	0.0711	1.1083	0.0193	0.6253	0.0174	0.3838

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 3
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST PART MACH REINO=6 PHI CONF L DEL1 DEL2 DEL3 DELA TRANSITION
2 60 0.90 2.5 0.0 M3-0F15 0.0 0 0 0 0 FREE

POINT	ALPHA	BETA	CA	CLM	CY	CLN	CLL	CA	CAH	CAF	XCP
1	-1.53	0.00	-0.1836	0.3112	-0.0044	0.0127	-0.0040	0.4171	0.1384	0.2782	-1.9073
2	-0.54	0.00	-0.0483	0.0799	-0.0077	0.0163	-0.0044	0.4062	0.1417	0.2645	-2.0483
3	0.41	0.00	0.0736	-0.1152	-0.0112	0.0205	-0.0045	0.4104	0.1408	0.2766	-1.3906
4	1.45	0.00	0.1931	-0.3159	-0.0064	0.0153	-0.0058	0.4173	0.1490	0.2663	-1.6362
5	2.45	0.00	0.3252	-0.5218	-0.0019	0.0133	-0.0045	0.4125	0.1517	0.2609	-1.7785
6	3.46	0.00	0.4445	-0.7041	-0.0057	0.0240	-0.0029	0.4021	0.1492	0.2529	-1.8609
7	5.52	0.00	0.7191	-1.1506	-0.0143	0.0266	-0.0026	0.4137	0.1568	0.2569	-2.0434
8	9.56	0.00	1.4346	-2.3545	0.0051	-0.0062	0.0019	0.4354	0.1774	0.2580	-2.1065
9	13.73	0.00	2.4536	-5.0514	0.0098	-0.0063	-0.0037	0.4408	0.1956	0.2449	-2.1375
10	17.42	0.00	3.2761	-6.4363	0.0171	-0.0197	-0.0035	0.4325	0.2109	0.2216	-1.9658
11	20.09	0.00	3.7689	-6.8921	0.0137	-0.0146	-0.0013	0.4275	0.2370	0.1908	-1.8287
12	25.56	0.00	5.0819	-7.1595	0.0347	-0.0334	-0.0101	0.4017	0.2946	0.1068	-1.4088
13	28.01	0.00	5.7755	-6.9374	0.0334	-0.0161	-0.0107	0.3878	0.3139	0.0679	-1.2012

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RN/D-6	PWI	CONF	L	DEL1	DEL2	DEL3	DELA	TRANSITION
	2	60	0.60	2.5	0.0	93.6F15	0.0	0	0	0	0	FREE

POINT	ALPHA	BETA	CNF1	CM1	CH1	XCPF1	YCPF1	CNF2	CM2	CB2	XCPF2	YCPF2
1	-1.63	0.0	-0.0222	-0.0046	0.0004	0.1741	-0.3055	-0.0568	-0.0114	-0.0029	0.2038	0.7565
2	-0.84	0.0	-0.0229	-0.0044	0.0071	0.1921	-0.3075	-0.0112	-0.0048	-0.0256	0.4284	2.2766
3	0.01	0.0	-0.0251	-0.0045	0.0058	0.1959	-0.2164	0.0323	0.0068	-0.0116	0.1044	-0.3588
4	1.45	0.0	-0.0259	-0.0047	0.0068	0.1986	-0.1877	0.0705	0.0114	0.0049	0.1446	0.0620
5	2.85	0.0	-0.0287	-0.0063	0.0053	0.1765	-0.2151	0.1255	0.0174	0.0278	0.1368	0.2217
6	3.48	0.0	-0.0277	-0.0065	0.0065	0.1630	-0.2321	0.1788	0.0245	0.0494	0.1368	0.2764
7	5.56	0.0	-0.0336	-0.0085	0.0084	0.1520	-0.2074	0.3047	0.0346	0.1033	0.1245	0.3335
8	9.58	0.0	-0.0211	-0.0065	0.0123	0.2165	-0.5698	0.5912	0.0539	0.2235	0.0912	0.3780
9	13.73	0.0	-0.0226	-0.0064	0.0134	0.1965	-0.8700	0.8721	0.0552	0.3248	0.0633	0.3782
10	17.92	0.0	-0.0276	-0.0059	0.0061	0.2040	-0.1494	1.1014	0.0517	0.4115	0.0469	0.3736
11	20.64	0.0	-0.0318	-0.0063	0.0068	0.1967	-0.2766	1.1838	0.0488	0.4333	0.0412	0.3668
12	25.58	0.0	-0.0353	-0.0064	0.0069	0.1933	-0.1956	1.3187	0.0387	0.4640	0.0293	0.3519
13	29.01	0.0	-0.0352	-0.0063	0.0029	0.1766	-0.0563	1.3479	0.0348	0.4659	0.0258	0.3478

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 3 OF 3
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	REYN-6	PHI	CONF	L	DEL1	DEL2	DEL3	DELA	TRANSITION
2	60	0.60	2.5	0.0	M3.0F15	0.0	0	0	0	0	FREE

POINT	ALPHA	BETA	CNF3	CM3	CN3	XCPF3	YCPF3	CNF4	CM4	CB4	XCPF4	YCPF4
1	-1.03	0.0	-0.0255	-0.0043	-0.0000	0.3963	0.2668	-0.0087	-0.0077	-0.0297	0.1581	0.6095
2	-0.54	0.0	-0.0254	-0.0107	-0.0058	0.4214	0.2276	-0.0080	-0.0001	-0.0130	0.0084	2.1703
3	0.41	0.0	-0.0282	-0.0161	-0.0155	0.3997	0.2066	-0.0382	0.0081	0.0053	0.2078	0.1372
4	1.45	0.0	-0.0253	-0.0098	-0.0057	0.3814	0.2273	0.0833	0.0125	0.0283	0.1506	0.3393
5	2.45	0.0	-0.0225	-0.0110	-0.0065	0.3813	0.1550	0.1360	0.0193	0.0502	0.1420	0.3693
6	3.46	0.0	-0.0287	-0.0163	-0.0053	0.3948	0.1977	0.1906	0.0252	0.0771	0.1323	0.4046
7	5.52	0.0	-0.0277	-0.0106	-0.0059	0.3894	0.2023	0.3189	0.0369	0.1368	0.1158	0.4289
8	9.58	0.0	-0.0316	-0.0108	-0.0050	0.3355	0.1596	0.5891	0.0496	0.2650	0.0842	0.4499
9	13.73	0.0	-0.0336	-0.0116	-0.0049	0.3351	0.1462	0.8479	0.0499	0.3706	0.0586	0.4371
10	17.92	0.0	-0.0345	-0.0115	-0.0031	0.3334	0.0884	1.0578	0.0479	0.4454	0.0453	0.4268
11	20.09	0.0	-0.0352	-0.0121	-0.0034	0.3367	0.0941	1.1427	0.0402	0.4764	0.0352	0.4168
12	25.58	0.0	-0.0351	-0.0125	-0.0009	0.3505	0.0239	1.2785	0.0287	0.5131	0.0224	0.4013
13	28.01	0.0	-0.0357	-0.0126	-0.0027	0.3521	0.0748	1.2829	0.0201	0.5121	0.0157	0.3982

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RAD/DEG	RNI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2	61	1.10	2.5	0.0	W3-0F15	0.0	0	0	0	0	FREE

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-1.58	0.0	-0.1845	0.0171	-0.0155	0.0170	-0.0077	0.5919	0.2074	0.3835	-1.6957
2	-0.81	0.0	-0.0443	0.0367	-0.0156	0.0376	-0.0077	0.5902	0.2143	0.3759	-1.4448
3	0.06	0.0	0.0537	-0.1572	-0.0138	0.0345	-0.0069	0.5885	0.2165	0.3730	-1.8726
4	1.65	0.0	0.2036	-0.3594	-0.0109	0.0300	-0.0071	0.5872	0.2176	0.3696	-1.7688
5	2.45	0.0	0.3421	-0.0163	-0.0111	0.0346	-0.0068	0.5866	0.2185	0.3661	-1.8116
6	3.49	0.0	1.0416	-0.4019	-0.0113	0.0346	-0.0054	0.5851	0.2203	0.3649	-1.8727
7	5.54	0.0	1.7356	-1.5521	-0.0269	0.0354	-0.0025	0.5887	0.2267	0.3620	-1.9879
8	9.63	0.0	1.5146	-3.1143	-0.0633	0.0753	-0.0015	0.6006	0.2501	0.3505	-2.0567
9	13.74	0.0	2.3106	-4.5249	-0.0815	0.0269	-0.0038	0.5935	0.2562	0.3373	-1.9539
10	18.07	0.0	3.2073	-5.6365	0.0014	0.0313	-0.0023	0.5828	0.2731	0.3098	-1.7367
11	20.27	0.0	3.5346	-5.5606	0.0108	0.0346	-0.0005	0.5671	0.2732	0.2940	-1.5566
12	25.92	0.0	5.3427	-6.2291	0.0313	0.0444	-0.0020	0.5176	0.2908	0.2268	-1.1573
13	28.39	0.0	6.1776	-6.0756	0.0235	0.0736	-0.0040	0.4931	0.3020	0.1911	-0.9836

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 2 OF 3
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST PART MACH REIN=6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION
2 01 1.10 2.5 0.0 M3#0F15 0.0 0 0 0 0 FREE

POINT	ALPHA	BETA	CNF1	CM1	CH1	XCPF1	YCPF1	CNF2	CM2	CB2	XCPF2	YCPF2
1	-1.54	0.0	-0.0626	-0.0581	0.0570	0.1656	-0.2859	-0.0608	-0.0119	-0.0458	0.1956	0.7467
2	-0.01	0.0	-0.0246	-0.0091	0.0193	0.1854	-0.3740	-0.0131	-0.0036	-0.0240	0.2713	2.1263
3	0.98	0.0	-0.0259	-0.0089	0.0193	0.1345	-0.3196	0.0026	0.0025	-0.0095	0.0866	-0.3312
4	1.05	0.0	-0.0254	-0.0088	0.0175	0.1854	-0.3145	0.0764	0.0097	0.0078	0.1275	0.1025
5	2.45	0.0	-0.0264	-0.0047	0.0041	0.1887	-0.1697	0.1249	0.0163	0.0279	0.1304	0.2235
6	3.49	0.0	-0.0286	-0.0048	0.0061	0.1971	-0.2317	0.1627	0.0237	0.0499	0.1295	0.2738
7	5.50	0.0	-0.0299	-0.0051	0.0117	0.1761	-0.0841	0.3094	0.0367	0.1016	0.1121	0.3283
8	9.63	0.0	-0.0295	-0.0039	0.0169	0.1657	-0.5008	0.5759	0.0445	0.2146	0.0772	0.3726
9	13.74	0.0	-0.0283	-0.0061	-0.0107	0.1568	-0.0251	0.8300	0.0450	0.3177	0.0563	0.3827
10	18.07	0.0	-0.0302	-0.0038	0.0064	0.1795	-0.2776	1.0440	0.0359	0.3906	0.0344	0.3741
11	20.27	0.0	-0.0308	-0.0035	0.0068	0.1127	-0.2063	1.1274	0.0250	0.4161	0.0258	0.3691
12	25.92	0.0	-0.0305	-0.0060	0.0040	0.1481	-0.0977	1.3005	0.0198	0.4747	0.0152	0.3650
13	28.35	0.0	-0.0314	-0.0065	0.0058	0.1629	-0.1637	1.3513	0.0175	0.4901	0.0129	0.3625

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 3 OF 3
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RN/L	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2	61	1.10 2.5	0.0	43F15	0.0	0	0	0	0	FREE

POINT	ALPHA	BETA	CNF3	CM3	CA3	XCPF3	YCPF3	CNF4	CM4	CA4	XCPF4	YCPF4
1	-1.66	0.0	-0.0361	-0.0113	-0.0035	0.3737	0.1252	-0.0437	-0.0075	-0.0266	0.1716	0.6553
2	-0.51	0.0	-0.0297	-0.0111	-0.0041	0.3782	0.1404	0.0011	-0.0005	-0.0109	-0.4577	-10.4095
3	0.66	0.0	-0.0313	-0.0116	-0.0041	0.3530	0.1312	0.0670	0.0071	0.0046	0.1501	0.0969
4	1.45	0.0	-0.0301	-0.0105	-0.0044	0.3500	0.1518	0.0906	0.0128	0.0250	0.1415	0.2868
5	2.45	0.0	-0.0368	-0.0113	-0.0023	0.3487	0.0901	0.1466	0.0195	0.0454	0.1389	0.3228
6	3.46	0.0	-0.0315	-0.0111	-0.0040	0.3523	0.1277	0.1946	0.0248	0.0729	0.1273	0.3747
7	5.50	0.0	-0.0345	-0.0118	-0.0052	0.3719	0.1695	0.3186	0.0383	0.1323	0.1078	0.4156
8	9.03	0.0	-0.0323	-0.0115	-0.0037	0.3642	0.1155	0.5755	0.0411	0.2558	0.0715	0.4446
9	13.79	0.0	-0.0349	-0.0121	-0.0036	0.3491	0.1040	0.8153	0.0386	0.3568	0.0474	0.4376
10	16.07	0.0	-0.0364	-0.0122	-0.0037	0.3356	0.1011	1.0233	0.0272	0.4348	0.0266	0.4249
11	20.27	0.0	-0.0391	-0.0126	-0.0039	0.3291	0.0864	1.1046	0.0218	0.4658	0.0197	0.4217
12	25.92	0.0	-0.0417	-0.0139	-0.0034	0.3290	0.0442	1.2703	0.0117	0.5273	0.0092	0.4151
13	28.35	0.0	-0.0398	-0.0123	-0.0015	0.3162	0.0498	1.3092	0.0074	0.5430	0.0056	0.4147

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)

PAGE 1 OF 3
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RALPHA	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2	62	1.26	2.5	0.0	43.0F15	0.0	0	0	0	0	FREE

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAP	CAF	XCP
1	-1.44	0.0	-0.1334	-0.1049	-0.0187	0.0431	-0.0112	0.5512	0.1802	0.3711	-1.2129
2	-0.41	0.0	-0.0214	-0.0161	-0.0144	0.0433	-0.0102	0.5497	0.1806	0.3691	1.1235
3	0.62	0.0	0.1173	-0.0210	-0.0188	0.0953	-0.0111	0.5488	0.1842	0.3646	-2.1678
4	1.64	0.0	0.2142	-0.0029	-0.0156	0.0925	-0.0107	0.5467	0.1877	0.3590	-1.8464
5	2.65	0.0	0.3405	-0.0024	-0.0168	0.0931	-0.0111	0.5466	0.1894	0.3573	-1.8147
6	3.68	0.0	0.4703	-0.0015	-0.0190	0.0804	-0.0087	0.5454	0.1918	0.3541	-1.8183
7	5.68	0.0	0.7344	-0.0056	-0.0188	0.0797	-0.0073	0.5522	0.1945	0.3577	-1.8848
8	9.67	0.0	1.4874	-0.0137	-0.0023	0.0732	-0.0081	0.5694	0.2144	0.3552	-1.8942
9	13.68	0.0	2.2859	-0.0557	0.0041	0.0645	-0.0070	0.5845	0.2193	0.3652	-1.7458
10	18.19	0.0	3.2342	-0.0373	-0.0015	0.1052	-0.0100	0.5579	0.2257	0.3321	-1.4648
11	20.67	0.0	3.8516	-0.0475	0.0120	0.0986	-0.0101	0.5503	0.2369	0.3134	-1.2689
12	25.22	0.0	5.0494	-0.0736	0.0316	0.0958	-0.0104	0.5213	0.2596	0.2617	-0.9065
13	28.68	0.0	6.0008	-0.0654	0.0432	0.0741	-0.0072	0.5118	0.2730	0.2388	-0.7803

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	PALT	PMI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2	62	1.20	2.5	0.0	B3-0P15	0.0	0	0	0	0	FREE

POINT	ALPHA	BETA	CNF1	CM1	CN1	ACPF1	YCPF1	CNF2	CM2	CA2	XCPF2	YCPF2
1	-1.69	0.0	-0.0134	-0.0326	0.0050	0.2788	-0.1451	-0.0501	-0.0113	-0.0439	0.2248	0.4763
2	-0.81	0.0	-0.0354	-0.0729	0.0017	0.0817	-0.0454	-0.0053	-0.0065	-0.0257	0.9575	5.1012
3	0.42	0.0	-0.0338	-0.0823	0.0055	0.0866	-0.1624	0.0376	0.0005	-0.0116	0.0133	-0.3138
4	1.44	0.0	-0.0325	-0.0622	0.0057	0.0858	-0.1763	0.0653	0.0070	0.0059	0.0824	0.0690
5	2.45	0.0	-0.0329	-0.0402	0.0021	0.0570	-0.0841	0.1327	0.0126	0.0253	0.0936	0.1987
6	3.46	0.0	-0.0356	-0.0230	0.0035	0.0456	-0.1077	0.1853	0.0183	0.0470	0.0989	0.2534
7	5.50	0.0	-0.0336	-0.0031	-0.0001	0.1045	-0.0038	0.3056	0.0280	0.0968	0.0915	0.3234
8	9.67	0.0	-0.0347	-0.0334	0.0029	0.1173	-0.0831	0.5559	0.0391	0.2033	0.0650	0.3656
9	13.66	0.0	-0.0369	-0.0344	0.0015	0.1204	-0.0435	0.7873	0.0356	0.2948	0.0452	0.3765
10	18.19	0.0	-0.0440	-0.0305	-0.0036	0.1157	0.0657	0.9749	0.0308	0.3625	0.0316	0.3718
11	20.47	0.0	-0.0513	-0.0253	-0.0067	0.0978	0.0936	1.0509	0.0251	0.3858	0.0239	0.3671
12	26.22	0.0	-0.0633	-0.0063	-0.0004	0.0954	0.0128	1.1857	0.0086	0.4352	0.0072	0.3671
13	28.65	0.0	-0.0643	-0.0027	-0.0127	0.0862	0.2932	1.2163	0.0033	0.4494	0.0027	0.3689

ARNOLD ENGINEERING DEVELOPMENT CENTER(AFSC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)

PAGE 3 OF 3
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	PAL=0	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
7	62	1.20	2.5	0.0	B3=0F15	0.0	0	0	0	0	FREE

POINT	ALPHA	BETA	CNF3	CM3	CA3	XCPF3	YCPF3	CNF4	CM4	CA4	XCPF4	YCPF4
1	-1.09	0.0	-0.0319	-0.0105	-0.0034	0.3311	0.1231	-0.0358	-0.6083	-0.0265	0.2338	0.8043
2	-0.01	0.0	-0.0314	-0.0101	-0.0047	0.3171	0.1491	0.0095	-0.0018	-0.0108	-0.1939	-1.1460
3	0.92	0.0	-0.0311	-0.0104	-0.0046	0.3341	0.1153	0.0528	-0.0048	0.0067	0.0901	0.1274
4	1.99	0.0	-0.0307	-0.0104	-0.0054	0.3448	0.1775	0.0931	0.0090	0.0277	0.0970	0.2977
5	2.45	0.0	-0.0299	-0.0101	-0.0056	0.3385	0.1856	0.1420	0.0152	0.0471	0.1069	0.3315
6	3.46	0.0	-0.0297	-0.0099	-0.0059	0.3317	0.1894	0.1965	0.0207	0.0724	0.1053	0.3683
7	5.58	0.0	-0.0301	-0.0107	-0.0067	0.3456	0.1573	0.3137	0.0281	0.1272	0.0896	0.4056
8	9.87	0.0	-0.0317	-0.0115	-0.0041	0.3614	0.1246	0.5547	0.0322	0.2436	0.0540	0.4392
9	13.88	0.0	-0.0304	-0.0130	-0.0026	0.3767	0.0685	0.7774	0.0290	0.3374	0.0373	0.4348
10	18.19	0.0	-0.0356	-0.0129	-0.0037	0.3591	0.0901	0.9635	0.0211	0.4079	0.0219	0.4233
11	20.17	0.0	-0.0358	-0.0131	-0.0018	0.3555	0.0432	1.0351	0.0156	0.4330	0.0151	0.4183
12	24.22	0.0	-0.0343	-0.0137	0.0013	0.3987	-0.0383	1.1717	0.0019	0.4892	0.0016	0.4175
13	25.68	0.0	-0.0325	-0.0128	0.0007	0.3934	-0.0208	1.2053	-0.0028	0.5065	-0.0024	0.4202

MARTIN MISSILE TAIL EFFECTS DATA

TEST PART PACH REINOL PHI CLMF L DEL1 DEL2 DEL3 DELA TRANSITION
2 63 1.2V 2.5 0.0 MEMORIES 0.0 0 0 0 0 FREE

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAP	CAF	XCP
1	-1.03	0.0	-0.1714	0.3693	-0.0456	-0.1050	-0.0275	0.5315	0.1768	0.3548	-2.1356
2	-0.59	0.0	-0.0557	0.1807	0.0514	-0.1104	-0.0261	0.5297	0.1752	0.3545	-3.2452
3	0.00	0.0	0.0627	-0.1031	0.0455	-0.0927	-0.0275	0.5295	0.1782	0.3516	-0.8598
4	1.45	0.0	0.1841	-0.1431	0.0520	-0.0999	-0.0261	0.5286	0.1812	0.3474	-1.0489
5	2.88	0.0	0.3042	-0.3916	0.0523	-0.1027	-0.0260	0.5245	0.1830	0.3415	-1.2707
6	3.89	0.0	0.4477	-0.5610	0.0560	-0.1017	-0.0241	0.5223	0.1840	0.3383	-1.4316
7	5.56	0.0	0.7352	-1.0984	0.0503	-0.1133	-0.0242	0.5326	0.1867	0.3457	-1.5819
8	9.72	0.0	1.4071	-2.0171	0.0679	-0.1239	-0.0240	0.5507	0.2081	0.3426	-1.6468
9	13.97	0.0	2.1079	-3.1948	0.0543	-0.0960	-0.0251	0.5405	0.2168	0.3236	-1.4742
10	18.34	0.0	3.1458	-3.7933	0.0474	-0.0147	-0.0276	0.5308	0.2265	0.3043	-1.1871
11	20.62	0.0	3.8124	-3.8788	0.0358	0.0550	-0.0316	0.5225	0.2420	0.2805	-1.0168
12	26.41	0.0	5.5603	-4.1422	0.0325	0.1504	-0.0345	0.5207	0.2607	0.2600	-0.7450
13	28.93	0.0	6.3943	-4.2485	0.0205	0.1752	-0.0415	0.5341	0.2810	0.2531	-0.7015

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 2 OF 3
SHEET 1 OF 1
MANTI - MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RN/L	PHI	CONF	L	DEL1	DEL2	DEL3	DELA	TRANSITION
2	63	1.2V	2.5	0.0	B3-0F15	0.0	0	0	0	0	FREE

POINT	ALPHA	BETA	CNF1	CM1	CBL	XCPF1	YCPF1	CNF2	CM2	CA2	XCPF2	YCPF2
1	-1.63	0.0	-0.[illegible]	-0.0128	0.0185	0.1111	-0.6084	-0.0561	-0.0086	-0.0540	0.1071	1.0326
2	-0.55	0.0	-0.[illegible]	-0.0031	0.0164	0.1245	-0.7460	-0.0099	-0.0012	-0.0414	0.1164	4.1840
3	0.44	0.0	-0.0284	-0.0035	0.0218	0.1358	-0.8044	0.0320	0.0029	-0.0282	0.0895	-0.7552
4	1.45	0.0	-0.0234	-0.0027	0.0151	0.1191	-0.6575	0.0767	0.0079	-0.0109	0.1032	-0.1424
5	2.46	0.0	-0.0268	-0.0041	0.0123	0.1536	-0.6573	0.1238	0.0120	0.0085	0.0968	0.0689
6	3.47	0.0	-0.0312	-0.0056	0.0202	0.1658	-0.6077	0.1725	0.0159	0.0290	0.0922	0.1679
7	5.50	0.0	-0.0340	-0.0054	0.0174	0.1756	-0.5866	0.2652	0.0236	0.0748	0.0825	0.2624
8	9.72	0.0	-0.0367	-0.0067	0.0173	0.1922	-0.4990	0.5174	0.0267	0.1743	0.0555	0.3370
9	13.97	0.0	-0.0380	-0.0064	0.0159	0.1742	-0.1641	0.7257	0.0272	0.2594	0.0375	0.3575
10	18.34	0.0	-0.0543	-0.0077	0.0256	0.1425	-0.0929	0.9026	0.0195	0.3234	0.0216	0.3583
11	20.62	0.0	-0.0628	-0.0072	-0.0413	0.1143	0.0209	0.9760	0.0131	0.3435	0.0135	0.3520
12	26.41	0.0	-0.0776	-0.0036	-0.0115	0.0496	0.1503	1.0966	-0.0006	0.3867	-0.0007	0.3544
13	28.93	0.0	-0.1011	-0.0098	-0.0102	0.1033	0.1777	1.1617	-0.0051	0.4138	-0.0044	0.3562

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH NO.	PHI	CONE	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2	63	1.29	2.5	0.0	83.0F15	0.0	0	0	0	0	FREE

POINT	ALPHA	BETA	CNF3	CM3	CN3	XCPF3	YCPF3	CNF4	CM4	CA4	XCPF4	YCPF4
1	-1.53	0.0	-0.[illegible]	-0.0151	0.0051	0.5121	-0.2077	-0.0855	-0.0014	-0.0422	0.0356	0.9256
2	-0.54	0.0	-0.[illegible]	-0.0151	0.0053	0.5946	-0.2049	0.0002	0.0030	-0.0744	12.5150-101.4583	
3	0.49	0.0	-0.0252	-0.0164	0.0052	0.5424	-0.2083	0.0453	0.0071	-0.0651	0.1560	-0.1132
4	1.45	0.0	-0.0217	-0.0138	0.0040	0.6163	-0.1819	0.0862	0.0099	0.0154	0.1130	0.1792
5	2.48	0.0	-0.[illegible]	-0.[illegible]143	0.0052	0.6217	-0.2254	0.1364	0.0147	0.0362	0.1074	0.2656
6	3.49	0.0	-0.0214	-0.0132	0.0069	0.6475	-0.2413	0.1870	0.0167	0.0594	0.0998	0.3179
7	5.5[illegible]	0.0	-0.[illegible]	-0.[illegible]165	0.0065	0.7548	-0.3633	0.2986	0.0268	0.1122	0.0829	0.3755
8	9.72	0.0	-0.0182	-0.0171	0.0060	1.1237	-0.5651	0.5293	0.0267	0.2227	0.0504	0.4207
9	13.57	0.0	-0.[illegible]	-0.0213	0.0083	1.0868	-0.4152	0.7317	0.0238	0.3074	0.0315	0.4281
10	18.36	0.0	-0.[illegible]	-0.[illegible]19[illegible]	0.0142	0.6553	-0.1425	0.8985	0.2131	0.3743	0.0146	0.4166
11	20.52	0.0	-0.[illegible]	-0.0204	0.0028	0.5741	-0.0750	0.9626	0.0069	0.3954	0.0072	0.4107
12	24.41	0.0	-0.0[illegible]	-0.0194	0.0041	0.5232	-0.1099	1.0759	-0.0076	0.4416	-0.0070	0.4105
13	28.43	0.0	-0.[illegible]	-0.[illegible]19[illegible]	0.0033	0.5053	-0.0860	1.1311	-0.0122	0.4671	-0.0108	0.4129

ARNOLD ENGINEERING DEVELOPMENT CENTER (AEDC) PROPULSION WIND TUNNEL FACILITY (PWT) AERODYNAMIC WIND TUNNEL (4T)
PAGE 1 OF 3
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	REICH6	PHI	CONF	L	DEL1	DEL2	DEL3	DELA	TRANSITION
2	69	0.80	2.5	0.0	53-0F14	0.0	0	0	0	0	FREE

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	ACP
1	-1.64	0.0	-0.1300	0.2140	-0.0087	-0.0157	0.0062	0.2609	0.1053	0.1855	-1.5725
2	-0.58	0.0	-0.0354	0.0762	-0.0071	-0.0212	0.0049	0.2893	0.1119	0.1774	-2.1243
3	0.43	0.0	0.0540	-0.0925	-0.0101	-0.0143	0.0052	0.2893	0.1123	0.1769	-0.5378
4	1.46	0.0	0.1542	-0.1567	-0.0015	-0.0234	0.0057	0.2877	0.1125	0.1752	-1.0163
5	2.50	0.0	0.2620	-0.2124	-0.0109	-0.0263	0.0062	0.2848	0.1131	0.1717	-1.1945
6	3.50	0.0	0.3712	-0.2712	-0.0093	-0.0291	0.0069	0.2844	0.1125	0.1719	-1.3231
7	5.56	0.0	0.6273	-0.3963	-0.0093	-0.0358	0.0056	0.2877	0.1146	0.1730	-1.4989
8	9.60	0.0	1.0224	-0.6736	-0.0020	-0.0136	0.0063	0.3045	0.1361	0.1664	-1.6952
9	13.73	0.0	1.4231	-0.9325	0.0028	-0.0241	0.0077	0.3041	0.1556	0.1485	-1.7128
10	17.68	0.0	2.7350	-0.5610	0.0135	-0.0558	0.0084	0.2943	0.1756	0.1187	-1.6606
11	19.95	0.0	3.1510	-0.0760	0.0259	-0.0857	0.0097	0.2844	0.1828	0.1016	-1.6085
12	25.20	0.0	4.2962	-0.2076	0.0191	-0.0764	0.0069	0.2602	0.2123	0.0479	-1.4456
13	27.46	0.0	4.8263	-0.7130	-0.0076	-0.0040	0.0071	0.2431	0.2391	0.0040	-1.3821

MARTIN MISSILE TAIL EFFECTS DATA

TEST PART MACH NUMBER PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION
2 69 0.60 2.5 0.0 M3.0F14 0.0 0 0 0 0 FREE

POINT	ALPHA	BETA	CNF1	CM1	CA1	XCPF1	YCPF1	CNF2	CM2	CA2	XCPF2	YCPF2
1	-1.50	0.0	[illegible]	[illegible]	0.0	[illegible]	0.0	-0.0540	-0.0063	[illegible]	0.0061	0.3553
2	-0.50	0.0	0.0097	[illegible]	0.0055	0.1579	0.5870	-0.0167	-0.0004	-0.0049	0.0222	0.2922
3	0.43	0.0	0.0305	[illegible]	0.0043	0.1279	0.0447	0.0170	-0.0002	0.0041	-0.0126	0.2445
4	1.46	0.0	0.0565	0.0013	-0.0065	0.1578	-0.0542	0.0528	-0.0006	0.0205	-0.0118	0.3890
5	2.50	0.0	0.0857	[illegible]	-0.0063	0.0893	-0.0578	0.0951	-0.0001	0.0335	-0.0007	0.3525
6	3.50	0.0	0.0877	0.0010	-0.0002	0.1375	-0.0208	0.1387	0.0001	0.0510	0.0006	0.3677
7	5.52	[illegible]	[illegible]	[illegible]	[illegible]	0.1782	0.1478	0.2350	0.0016	0.0847	0.0068	0.3603
8	9.60	0.0	0.0991	[illegible]	0.0137	0.2412	1.4254	0.4389	0.0064	0.1413	0.0145	0.3220
9	13.73	0.0	0.0130	[illegible]	0.0115	0.2452	0.8793	0.6516	0.0176	0.1796	0.0273	0.2758
10	17.86	0.0	0.0115	[illegible]	0.0139	0.2760	1.2066	0.8402	0.0302	0.2184	0.0358	0.2587
11	19.95	0.0	0.0115	[illegible]	0.0122	0.2751	1.0803	0.9203	0.0359	0.2327	0.0398	0.2529
12	25.24	0.0	0.0159	0.0030	0.0062	0.1962	0.2660	1.0566	0.0500	0.2542	0.0473	0.2406
13	27.40	0.0	-0.0107	[illegible]	0.0027	-0.0256	-0.1530	1.0978	0.0554	0.2589	0.0505	0.2358

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 3 OF 3
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	REIC-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2	69	0.60	2.5	0.0	B3P0P14	0.0	0	0	0	0	FREE

POINT	ALPHA	BETA	CNF3	CM3	CN3	XCPF3	YCPF3	CNF4	CM4	CA4	XCPF4	YCPF4
1	-1.65	0.0	-0.0030	-0.0017	-0.0008	0.1776	0.0478	-0.0488	0.0007	-0.0242	-0.0184	0.4953
2	-0.58	0.0	-0.0035	-0.0014	-0.0015	0.1776	0.2003	-0.0172	0.0011	-0.0118	-0.0842	0.9632
3	0.03	0.0	-0.0074	-0.0011	-0.0018	0.1527	0.2531	0.0229	0.0014	0.0031	0.0629	0.1366
4	1.46	0.0	-0.0038	-0.0011	-0.0022	0.1300	0.2509	0.0560	0.0009	0.0198	0.0157	0.3542
5	2.50	0.0	-0.0104	-0.0010	-0.0016	0.1525	0.1525	0.0971	0.0010	0.0360	0.0098	0.3712
6	3.50	0.0	-0.0101	-0.0017	-0.0017	0.1715	0.1675	0.1380	0.0006	0.0542	0.0043	0.3938
7	5.56	0.0	-0.0106	-0.0017	-0.0024	0.1526	0.2143	0.2274	0.0010	0.0864	0.0065	0.3892
8	9.60	0.0	-0.0131	-0.0018	-0.0024	0.1750	0.1633	0.3242	0.0042	0.1499	0.0098	0.3534
9	13.73	0.0	-0.0161	-0.0025	-0.0021	0.1527	0.1328	0.4234	0.0113	0.1956	0.0181	0.3140
10	17.86	0.0	-0.0171	-0.0020	-0.0027	0.1149	0.1576	0.8027	0.0252	0.2347	0.0314	0.2924
11	19.95	0.0	-0.0191	-0.0025	-0.0019	0.1363	0.1009	0.8714	0.0303	0.2492	0.0347	0.2858
12	25.24	0.0	-0.0230	-0.0031	-0.0014	0.1357	0.0596	1.0009	0.0446	0.2738	0.0446	0.2735
13	27.48	0.0	-0.0253	-0.0029	-0.0018	0.1144	0.0556	1.0493	0.0509	0.2771	0.0485	0.2641

MARTI, MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RE/FT=E6	PHI	CONE	L	DEL1	DEL2	DEL3	DELA	TRANSITION
2	70	0.65	2.5	0.0	BODY+FIN	0.0	0	0	0	0	FREE

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-1.61	0.0	-0.1484	0.2163	-0.0001	-0.0216	0.0033	0.2940	0.1066	0.1874	-1.4891
2	-0.58	0.0	-0.0544	0.1749	-0.0005	-0.0073	0.0031	0.2926	0.1055	0.1869	-1.8812
3	0.65	0.0	0.0520	-0.1359	-0.0004	-0.0172	0.0040	0.2921	0.1089	0.1832	-0.6930
4	1.60	0.0	0.1464	-0.1531	-0.0037	-0.0203	0.0033	0.2917	0.1076	0.1841	-1.0568
5	2.65	0.0	0.2662	-0.3808	-0.0039	-0.0145	0.0031	0.2919	0.1107	0.1812	-1.2692
6	3.61	0.0	0.3747	-0.5265	-0.0039	-0.0225	0.0041	0.2922	0.1101	0.1821	-1.3867
7	5.56	0.0	0.5727	-0.7927	-0.0044	-0.0104	0.0032	0.2940	0.1121	0.1817	-1.5491
8	9.61	0.0	1.0307	-0.1504	-0.0001	-0.0175	0.0043	0.3121	0.1380	0.1741	-1.7387
9	13.70	0.0	1.5731	-0.0601	0.0026	-0.0113	0.0067	0.3167	0.1613	0.1554	-1.7530
10	17.87	0.0	2.1752	-0.0504	0.0127	-0.0051	0.0067	0.3044	0.1759	0.1289	-1.6759
11	19.99	0.0	3.2116	-0.1975	0.0283	-0.0175	0.0081	0.2913	0.1777	0.1136	-1.6141
12	24.24	0.0	4.3758	-0.2374	0.0185	-0.0065	0.0079	0.2704	0.2177	0.0527	-1.4254
13	27.58	0.0	4.5073	-0.0922	0.0322	-0.1153	0.0076	0.2529	0.2461	0.0128	-1.3446

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)

PAGE 2 OF 3
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RNIO-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2	70	0.45	2.5	0.0	03-0P14	0.0	0	0	0	0	FREE

POINT	ALPHA	BETA	CNF1	CM1	CB1	XCPF1	YCPF1	CNF2	CM2	CB2	XCPF2	YCPF2
1	-1.01	0.0	0.0031	0.0313	0.0022	0.1572	0.2044	-0.0476	-0.0021	-0.0231	0.0027	0.0844
2	-0.51	0.0	0.0005	0.0012	0.0134	0.1355	1.57E+4	-0.0105	-0.0001	-0.0074	0.0048	0.7076
3	0.49	0.0	0.0145	0.0316	0.0082	0.1353	0.9578	0.0218	-0.0003	0.0331	-0.0151	0.1390
4	1.48	0.0	0.0155	0.0305	0.0010	0.0599	0.7624	0.0597	-0.0003	0.0179	-0.0052	0.3006
5	2.49	0.0	0.0047	0.0302	0.0078	0.0403	1.6589	0.1006	-0.0006	0.0327	-0.0043	0.3255
6	3.51	0.0	0.0074	0.0010	0.0051	0.1322	0.6921	0.1457	-0.0303	0.0462	-0.0018	0.3322
7	5.56	0.0	0.0056	0.0048	0.0087	0.1274	0.7516	0.2436	-0.0006	0.0864	-0.0014	0.3470
8	9.61	0.0	0.0052	0.0012	0.0067	0.2316	1.7450	0.4515	0.0046	0.1406	0.0106	0.3115
9	13.74	0.0	0.0050	0.0020	0.0102	0.3559	1.8185	0.6687	0.0152	0.1613	0.0227	0.2711
10	17.87	0.0	0.0174	0.0315	0.0145	0.2054	2.5163	0.8525	0.0282	0.2167	0.0308	0.2503
11	19.94	0.0	0.0110	0.0026	0.0150	0.2056	1.2998	0.9204	0.0309	0.2318	0.0335	0.2507
12	25.29	0.0	0.0124	0.0024	0.0175	0.1571	0.5848	1.0540	0.0454	0.2495	0.0431	0.2367
13	27.54	0.0	0.0134	0.0020	0.0212	0.1088	1.1536	1.0914	0.0503	0.2551	0.0461	0.2338

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART.	MACH	REYNOLDS	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2	76	0.85	2.5	0.0	03P0P10	0.0	0	0	0	0	FREE

POINT	ALPHA	BETA	CNF3	CM3	CN3	XCPF3	YCPF3	CNF4	CM4	CA4	XCPF4	YCPF4
1	-1.51	0.0	-0.0101	-0.0023	-0.0132	1.2257	0.3164	-0.0479	0.0010	-0.0244	-0.0217	0.5093
2	-0.58	0.0	-0.0101	-0.0019	-0.0132	0.1567	0.3132	-0.0121	0.0012	-0.0111	-0.0971	0.9178
3	0.95	0.0	-0.0106	-0.0023	-0.0029	0.1562	0.2842	0.0216	0.0010	0.0048	0.0445	0.2245
4	1.96	0.0	-0.0113	-0.0021	-0.0035	0.1851	0.3206	0.0568	0.0008	0.0202	0.0139	0.3556
5	2.99	0.0	-0.0129	-0.0025	-0.0032	0.1971	0.2558	0.0973	0.0005	0.0361	0.0049	0.3718
6	3.51	0.0	-0.0114	-0.0025	-0.0034	0.2158	0.2906	0.1401	-0.0000	0.0554	-0.0002	0.3956
7	5.58	0.0	-0.0145	-0.0024	-0.0025	0.1942	0.2076	0.2300	-0.0002	0.0904	-0.0007	0.3929
8	9.41	0.0	-0.0154	-0.0024	-0.0028	0.1759	0.1765	0.4323	0.0026	0.1517	0.0059	0.3509
9	13.78	0.0	-0.0147	-0.0038	-0.0032	0.1717	0.1606	0.6328	0.0044	0.1964	0.0133	0.3136
10	17.97	0.0	-0.0142	-0.0024	-0.0044	0.1732	0.2239	0.8052	0.0209	0.2367	0.0260	0.2964
11	19.49	0.0	-0.0223	-0.0032	-0.0040	0.1641	0.1365	0.8744	0.0257	0.2514	0.0296	0.2875
12	25.29	0.0	-0.0241	-0.0033	-0.0033	0.1370	0.1370	0.9956	0.0391	0.2742	0.0393	0.2755
13	27.56	0.0	-0.0271	-0.0034	-0.0019	0.1342	0.0869	1.0315	0.0436	0.2746	0.0423	0.2663

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)

PAGE 1 OF 3
SHEET 1 OF 1

MANTIS MISSILE TAIL EFFECTS DATA

TEST	PART	RNLN	REIN*6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2	71	0.9E	2.5	0.0	M3*OF14	0.0	0	0	0	0	FREE

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-1.50	0.0	-0.1304	0.0113	-0.0051	-0.0272	0.0020	0.3226	0.1007	0.2219	-1.5242
2	-0.54	0.0	-0.0378	0.0747	-0.0067	-0.0201	0.0021	0.3201	0.1051	0.2150	-1.9713
3	0.43	0.0	0.0514	-0.0385	-0.0050	-0.0177	0.0015	0.3191	0.1079	0.2113	-0.7843
4	1.47	0.0	0.1394	-0.1788	-0.0037	-0.0241	0.0018	0.3190	0.1077	0.2113	-1.1205
5	2.50	0.0	0.2350	-0.3388	-0.0030	-0.0229	0.0018	0.3184	0.1075	0.2113	-1.2754
6	3.51	0.0	0.3263	-0.5524	-0.0030	-0.0200	0.0017	0.3179	0.1098	0.2044	-1.4308
7	5.53	0.0	0.5077	-1.0563	-0.0063	-0.0145	0.0017	0.3167	0.1134	0.2053	-1.6278
8	9.64	0.0	1.3096	-2.3797	0.0017	-0.0191	0.0023	0.3439	0.1378	0.2061	-1.8302
9	13.75	0.0	2.0446	-3.7293	0.0019	-0.0107	0.0038	0.3395	0.1573	0.1822	-1.8245
10	17.91	0.0	2.6022	-4.9764	0.0113	-0.0377	0.0059	0.3309	0.1749	0.1559	-1.7147
11	20.03	0.0	3.3561	-5.8423	0.0197	-0.0644	0.0059	0.3182	0.1897	0.1285	-1.6383
12	25.41	0.0	4.0050	-6.2422	0.0220	-0.0537	0.0045	0.2949	0.2313	0.0636	-1.3552
13	27.73	0.0	5.1731	-6.4604	0.0434	-0.0126	0.0050	0.2643	0.2548	0.0145	-1.2302

MAVERICK MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	ALPHA	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2	71	0.92	2.5	0.0	A3.0F14	0.0	0	0	0	0	FREE

POINT	ALPHA	BETA	CNF1	CM1	CA1	XCPF1	YCPF1	CNF2	CM2	CA2	XCPF2	YCPF2
1	-1.56	0.0	0.0066	0.0007	0.0062	0.1504	1.9457	-0.0447	0.0002	-0.0265	-0.0049	0.5435
2	-0.58	0.0	0.0066	0.0007	0.0062	0.1504	2.0018	-0.0102	0.0000	-0.0110	-0.0020	1.0694
3	0.43	0.0	0.0026	0.0002	0.0046	0.0481	1.5402	0.1225	-0.0006	0.0023	-0.0265	0.1816
4	1.47	0.0	0.0041	0.0003	0.0035	0.0730	0.5418	0.3614	-0.0005	0.0162	-0.0080	0.2636
5	2.56	0.0	0.0063	-0.0007	0.0041	-0.0742	1.8035	0.1049	-0.0010	0.0313	-0.0091	0.2988
6	3.51	0.0	0.0014	-0.0001	0.0035	-0.0295	1.8254	0.1493	-0.0019	0.0497	-0.0124	0.3326
7	5.55	0.0	0.0256	0.0037	0.0075	0.1504	1.7036	0.2529	-0.0021	0.0865	-0.0083	0.3418
8	9.64	0.0	0.0144	0.0013	0.0102	0.3387	2.6020	0.4692	-0.0011	0.1469	-0.0022	0.3130
9	13.75	0.0	0.0264	0.0025	0.0100	0.5937	2.2614	0.6854	0.0058	0.1876	0.0084	0.2737
10	17.91	0.0	0.0341	0.0016	0.0157	0.1954	1.7239	0.6702	0.0135	0.2258	0.0155	0.2504
11	20.03	0.0	0.0114	0.0023	0.0168	0.2055	1.5306	0.9436	0.0184	0.2406	0.0196	0.2558
12	25.41	0.0	0.0119	0.0015	0.0130	0.1273	1.1036	1.0622	0.0330	0.2548	0.0311	0.2398
13	27.73	0.0	-0.0117	-0.0021	0.0103	0.0005	-0.8754	1.0378	0.0387	0.2564	0.0352	0.2335

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)

PAGE 3 OF 3
SHEET 1 OF 1

PANTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RNUM	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2	71	0.6	2.5	0.0	03	0.0	0	0	0	0	FREE

POINT	ALPHA	BETA	CNF3	CM3	CH3	ACPF3	YCPF3	CNF4	CM4	C84	XCPF4	YCPF4
1	-1.61	0.0	-0.0142	-0.0033	-0.0036	0.2052	0.2561	-0.0077	0.0011	-0.0260	-0.0227	0.5447
2	-0.59	0.0	-0.0110	-0.0027	-0.0039	0.2274	0.3271	-0.0102	0.0017	-0.0119	-0.1637	1.1726
3	0.43	0.0	-0.0151	-0.0038	-0.0027	0.2234	0.1782	0.0231	0.0013	0.0037	0.0480	0.1588
4	1.47	0.0	-0.0129	-0.0047	-0.0044	0.2218	0.3365	0.0597	0.0010	0.0189	0.0171	0.3167
5	2.50	0.0	-0.0156	-0.0036	-0.0033	0.2342	0.2097	0.1014	0.0002	0.0368	0.0017	0.3638
6	3.51	0.0	-0.0155	-0.0035	-0.0033	0.2326	0.2145	0.1457	-0.0009	0.0545	-0.0060	0.3877
7	5.55	0.0	-0.0158	-0.0045	-0.0037	0.2054	0.2242	0.2364	-0.0026	0.0932	-0.0110	0.3903
8	9.56	0.0	-0.0134	-0.0032	-0.0034	0.1718	0.2132	0.4523	-0.0036	0.1596	-0.0079	0.3529
9	13.75	0.0	-0.0210	-0.0034	-0.0045	0.1610	0.2201	0.6558	-0.0005	0.2058	-0.0038	0.3139
10	17.91	0.0	-0.0275	-0.0031	-0.0042	0.1369	0.1770	0.8272	0.0082	0.2461	0.0100	0.2999
11	20.03	0.0	-0.0283	-0.0035	-0.0042	0.1453	0.1751	0.8936	0.0137	0.2614	0.0154	0.2926
12	25.01	0.0	-0.0285	-0.0045	-0.0026	0.1558	0.0896	1.0076	0.0271	0.2609	0.0269	0.2787
13	27.73	0.0	-0.0283	-0.0041	-0.0035	0.1463	0.1236	1.0526	0.0314	0.2826	0.0298	0.2684

HARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH NXI	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2	72	0.90 2.5	0.0	W3WDF1W	0.0	0	0	0	0	FREE

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CA0	CAF	ACP
1	-1.60	0.0	-0.1527	0.2537	-0.0747	-0.0259	0.0010	0.4014	0.1297	0.2717	-1.6602
2	-0.58	0.0	-0.0444	0.1955	-0.0630	-0.0231	0.0009	0.3976	0.1324	0.2650	-2.0577
3	0.44	0.0	0.0521	-0.0418	-0.0165	-0.0185	0.0003	0.4039	0.1327	0.2682	-0.7985
4	1.49	0.0	0.1736	-0.2240	-0.0811	-0.0226	0.0010	0.4043	0.1352	0.2691	-1.3211
5	2.49	0.0	0.2417	-0.3482	-0.1088	-0.0169	0.0034	0.4005	0.1397	0.2608	-1.4418
6	3.46	0.0	0.3099	-0.4351	-0.0830	-0.0137	0.0014	0.3963	0.1428	0.2535	-1.5496
7	5.53	0.0	0.4641	-0.6132	-0.0411	-0.0259	0.0007	0.3970	0.1416	0.2554	-1.6917
8	9.63	0.0	1.3041	-2.3524	-0.0817	-0.0125	0.0025	0.4156	0.1785	0.2371	-1.8914
9	13.78	0.0	2.0734	-3.2588	0.0638	-0.0214	0.0038	0.4389	0.1761	0.2629	-1.7597
10	17.97	0.0	2.9796	-4.6277	0.0872	-0.0194	0.0051	0.4317	0.2117	0.2200	-1.6587
11	20.13	0.0	3.4732	-5.3773	0.0960	-0.0252	0.0058	0.4366	0.2323	0.2045	-1.5455
12	25.59	0.0	4.9266	-8.0224	0.0175	-0.0070	0.0076	0.3978	0.2990	0.0988	-1.2230
13	28.01	0.0	5.6318	-9.2412	0.0226	-0.0196	0.0066	0.3748	0.3107	0.0633	-1.0463

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 2 OF 3
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	MACH=6	PHI	CONF	L	DEL1	DEL2	DEL3	DELA	TRANSITION
2	72	6.90	2.5	0.0	53.0F14	0.0	0	0	0	0	FREE

POINT	ALPHA	BETA	CNF1	CM1	CA1	XCPF1	YCPF1	CNF2	CM2	CA2	XCPF2	YCPF2
1	-1.60	0.0	0.0017	-0.0019	0.0063	0.2010	1.0765	-0.0532	0.0016	-0.0282	-0.0263	0.5299
2	-0.58	0.0	0.0006	0.0012	0.0041	0.2176	1.6277	-0.0143	-0.0002	-0.0103	0.0169	0.7212
3	0.40	0.0	0.0026	0.0013	0.0169	0.1812	1.2168	0.0251	-0.0012	0.0026	-0.0071	0.1035
4	1.49	0.0	0.0059	0.0011	0.0065	0.1858	0.4274	0.0669	-0.0025	0.0169	-0.0370	0.2823
5	2.45	0.0	0.0042	0.0065	0.0036	0.1592	1.1351	0.1135	-0.0032	0.0331	-0.0241	0.2912
6	3.47	0.0	0.0036	0.0009	0.0133	0.2005	0.8696	0.1593	-0.0044	0.0519	-0.0304	0.3256
7	5.53	0.0	0.0077	0.0015	0.0251	0.2010	0.6615	0.2069	-0.0056	0.0885	-0.0210	0.1338
8	9.63	0.0	0.0071	0.0013	0.0162	0.1810	1.4441	0.4695	-0.0051	0.1452	-0.0109	0.3094
9	13.76	0.0	0.0110	0.0021	0.0160	0.1883	1.4625	0.6793	-0.0001	0.1890	-0.0002	0.2782
10	17.97	0.0	0.0071	0.0013	0.0104	0.1817	2.3563	0.8651	0.0031	0.2302	0.0035	0.2658
11	20.13	0.0	0.0109	0.0019	0.0161	0.1176	1.2492	0.9415	0.0036	0.2492	0.0038	0.2647
12	25.59	0.0	0.0091	0.0016	0.0037	0.1752	0.4096	1.0745	0.0160	0.2666	0.0148	0.2481
13	28.01	0.0	-0.0015	0.0006	0.0192	-0.2742	-0.2143	1.1017	0.0246	0.2867	0.0223	0.2421

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)

PAGE 3 OF 3
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RNLD-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2	72	0.60	2.5	0.0	B3W0F14	0.0	0	0	0	0	FREE

POINT	ALPHA	BETA	CNF3	CM3	CA3	XCPF3	YCPF3	CNF4	CM4	CA4	XCPF4	YCPF4
1	-1.60	0.0	-0.0114	-0.0063	-0.3124	0.2375	0.1107	-0.0469	0.0032	-0.0245	-0.0640	0.6075
2	-0.58	0.0	-0.0179	-0.0037	-0.3042	0.2043	0.1130	-0.0341	0.0019	-0.0124	-0.2042	1.3698
3	0.46	0.0	-0.0177	-0.0036	-0.3024	0.2006	0.1066	-0.0312	0.0011	-0.0040	-0.0337	0.1293
4	1.09	0.0	-0.0181	-0.0034	-0.3029	0.1902	0.1539	0.0695	-0.0007	0.0218	-0.0095	0.3133
5	2.48	0.0	-0.0192	-0.0036	-0.3023	0.1902	0.1215	0.1136	-0.0016	0.0366	-0.0144	0.3398
6	3.49	0.0	-0.0200	-0.0042	-0.3015	0.2018	0.0873	0.1585	-0.0033	0.0583	-0.0210	0.3677
7	5.53	0.0	-0.0218	-0.0037	-0.3027	0.1773	0.1287	0.2551	-0.0054	0.0954	-0.0213	0.3738
8	9.63	0.0	-0.0258	-0.0037	-0.3033	0.1599	0.1407	0.4526	-0.0050	0.1568	-0.0133	0.3465
9	13.78	0.0	-0.0284	-0.0041	-0.3036	0.1525	0.1321	0.6516	-0.0046	0.2055	-0.0071	0.3153
10	17.97	0.0	-0.0294	-0.0038	-0.3032	0.1394	0.1234	0.8264	-0.0047	0.2490	-0.0008	0.3014
11	24.13	0.0	-0.0294	-0.0041	-0.3024	0.1583	0.0797	0.9010	-0.0036	0.2698	-0.0007	0.2994
12	25.59	0.0	-0.0241	-0.0049	-0.3030	0.1486	0.1065	1.0337	0.0066	0.2987	0.0064	0.2890
13	26.01	0.0	-0.0196	-0.0044	-0.3013	0.1582	0.0808	1.0595	0.0162	0.2933	0.0160	0.2768

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)

PAGE 1 OF 3
SHEET 1 OF 1

MANTIS MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	REIN=6	PHI	CG-F	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2	73	1.10	2.5	0.0	B3=0F16	0.0	0	0	0	0	FREE

POINT	ALPHA	BETA	CN	CLN	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-1.01	0.0	-0.1845	0.2351	-0.0142	0.0009	-0.0003	0.5636	0.2037	0.3661	-1.4659
2	-0.50	0.0	-0.0497	0.0762	-0.0141	0.0041	0.0002	0.5642	0.2067	0.3625	-1.6299
3	0.03	0.0	0.0521	-0.0851	-0.0118	0.0062	-0.0002	0.5688	0.2104	0.3582	-1.2564
4	1.46	0.0	0.1476	-0.2229	-0.0114	0.0049	-0.0000	0.5662	0.2116	0.3544	-1.3342
5	2.51	0.0	0.2545	-0.4143	-0.0042	0.0075	0.0002	0.5638	0.2112	0.3525	-1.4280
6	3.51	0.0	0.3947	-0.5159	-0.0123	0.0134	0.0026	0.5623	0.2104	0.3515	-1.5050
7	5.54	0.0	0.5867	-0.8133	-0.0167	-0.0016	-0.0019	0.5684	0.2141	0.3541	-1.6465
8	9.67	0.0	1.0232	-1.2874	-0.0143	0.0060	0.0007	0.5917	0.2433	0.3484	-1.6989
9	13.82	0.0	2.0774	-3.3873	-0.0153	-0.0252	0.0015	0.6002	0.2628	0.3374	-1.6209
10	18.10	0.0	2.9764	-4.2573	0.0064	-0.0244	0.0039	0.5955	0.2421	0.3333	-1.4312
11	20.28	0.0	3.5521	-4.9027	0.0060	-0.0231	0.0048	0.5714	0.2697	0.3047	-1.2676
12	25.95	0.0	5.1347	-6.8424	0.0294	-0.0057	0.0044	0.5260	0.2943	0.2337	-0.9119
13	28.40	0.0	5.8400	-7.8802	0.0382	-0.0145	0.0050	0.5275	0.3041	0.1984	-0.7644

MANTIS MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RELNO	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2	73	1.10	2.5	0.0	63WOF14	0.0	0	0	0	0	FREE

POINT	ALPHA	BETA	CNF1	CM1	CH1	XCPF1	YCPF1	CNF2	CM2	CB2	XCPF2	YCPF2
1	-1.01	0.0	0.0052	0.0016	0.0064	1.3113	1.2261	-0.0531	0.0020	-0.0287	-0.0472	0.5410
2	-0.58	0.0	0.0036	0.0017	0.0116	0.3351	3.2437	-0.0151	0.0003	-0.0129	-0.0206	0.8532
3	0.43	0.0	0.0026	0.0018	0.0053	0.6652	2.2891	0.0233	-0.0007	-0.0007	-0.0305	-0.0288
4	1.46	0.0	0.0026	0.0015	0.0021	1.4076	0.8078	0.0626	-0.0026	0.0175	-0.0411	0.2793
5	2.51	0.0	0.0042	0.0009	0.0019	0.6813	2.1209	0.1080	-0.0032	0.0318	-0.0294	0.2874
6	3.51	0.0	0.0016	0.0009	0.0026	0.5677	1.5742	0.1541	-0.0043	0.0491	-0.0276	0.3180
7	5.56	0.0	0.0063	0.0007	0.0047	0.2452	0.2863	0.2547	-0.0069	0.0865	-0.0260	0.3329
8	9.67	0.0	0.0059	0.0007	0.0153	0.1276	2.8659	0.4616	-0.0064	0.1424	-0.0192	0.3084
9	13.82	0.0	0.0047	0.0012	0.0196	0.1250	1.6457	0.6592	-0.0069	0.1847	-0.0105	0.2881
10	18.10	0.0	0.0109	0.0005	0.0157	0.0513	1.4895	0.8204	-0.0059	0.2216	-0.0072	0.2700
11	20.28	0.0	0.0125	0.0004	0.0179	0.0481	1.4343	0.8758	-0.0095	0.2368	-0.0109	0.2787
12	25.95	0.0	0.0094	0.0003	0.0064	0.0263	0.8452	0.9945	-0.0101	0.2591	-0.0102	0.2605
13	28.60	0.0	0.0151	0.0001	0.0201	0.0153	1.3307	1.0167	-0.0152	0.2666	-0.0149	0.2628

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)

PAGE 3 OF 3
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST PART MACH REID-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION
2 73 1.10 2.5 0.0 B3WBF1W 0.0 0 0 0 0 FREE

POINT	ALPHA	BETA	CNF3	CM3	CN3	XCPF3	YCPF3	CNF4	CM4	CA4	XCPF4	YCPF4
1	-1.01	0.0	-0.0145	-0.0033	-0.0033	0.1774	0.1707	-0.0054	0.0038	-0.0275	-0.0428	0.0069
2	-0.56	0.0	-0.0140	-0.0031	-0.0043	0.1611	0.2237	-0.0061	0.0025	-0.0178	-0.3050	1.5744
3	0.03	0.0	-0.0136	-0.0032	-0.0032	0.1606	0.1611	0.0306	0.0011	0.0035	0.0373	0.1134
4	1.46	0.0	-0.0207	-0.0032	-0.0036	0.1527	0.1715	0.0692	-0.0002	0.0197	-0.0029	0.2844
5	2.51	0.0	-0.0215	-0.0033	-0.0043	0.1526	0.1512	0.1103	-0.0018	0.0388	-0.0167	0.3516
6	3.51	0.0	-0.0214	-0.0035	-0.0039	0.1502	0.1785	0.1546	-0.0026	0.0565	-0.0181	0.3651
7	5.54	0.0	-0.0223	-0.0036	-0.0037	0.1525	0.1641	0.2502	-0.0060	0.0942	-0.0241	0.3766
8	9.47	0.0	-0.0232	-0.0038	-0.0041	0.1538	0.1616	0.4407	-0.0090	0.1538	-0.0204	0.3490
9	13.32	0.0	-0.0277	-0.0044	-0.0031	0.1582	0.1124	0.6342	-0.0084	0.2007	-0.0133	0.3165
10	19.16	0.0	-0.0292	-0.0041	-0.0036	0.1418	0.1157	0.7650	-0.0086	0.2412	-0.0110	0.3072
11	20.28	0.0	-0.0316	-0.0046	-0.0032	0.1526	0.0997	0.8433	-0.0131	0.2583	-0.0155	0.3063
12	25.45	0.0	-0.0317	-0.0050	-0.0024	0.1578	0.0761	0.9551	-0.0156	0.2838	-0.0163	0.2971
13	29.40	0.0	-0.0340	-0.0052	-0.0023	0.1526	0.0012	0.9669	-0.0208	0.2871	-0.0215	0.2963

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RELO-A	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2	74	1.60	2.5	0.0	03-0P14	0.0	0	0	0	0	FREE

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-1.82	0.0	-0.1318	0.0232	-0.0232	0.0643	-0.0007	0.5345	0.1790	0.3595	-0.7093
2	-0.54	0.0	-0.0345	0.0105	-0.0193	0.0057	-0.0004	0.5373	0.1758	0.3614	-0.3045
3	0.45	0.0	0.0784	-0.0138	-0.0221	0.0076	-0.0004	0.5366	0.1822	0.3544	-1.8875
4	1.45	0.0	0.1793	-0.0258	-0.0171	0.0058	-0.0004	0.5363	0.1856	0.3507	-1.4698
5	2.50	0.0	0.2934	-0.0405	-0.0163	0.0056	-0.0009	0.5345	0.1874	0.3475	-1.4313
6	3.52	0.0	0.4137	-0.0566	-0.0163	0.0071	-0.0011	0.5338	0.1880	0.3458	-1.4281
7	5.56	0.0	0.6505	-0.0887	-0.0162	0.0073	-0.0013	0.5425	0.1873	0.3452	-1.4969
8	9.72	0.0	1.1150	-1.5933	-0.0132	0.0075	-0.0020	0.5640	0.2126	0.3512	-1.5083
9	13.89	0.0	2.0734	-2.9504	-0.0038	0.0311	-0.0009	0.5068	0.2230	0.3439	-1.4268
10	18.24	0.0	3.0429	-3.5752	0.0163	0.0049	0.0007	0.5662	0.2332	0.3329	-1.1758
11	20.48	0.0	3.6241	-3.6796	0.0259	-0.0037	0.0010	0.5555	0.2424	0.3131	-1.0056
12	24.24	0.0	5.2594	-3.6081	0.0493	-0.0060	0.0045	0.5227	0.2697	0.2530	-0.6821
13	28.67	0.0	6.0024	-3.2328	0.0682	-0.0061	0.0045	0.5144	0.2753	0.2392	-0.5624

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 2 OF 3
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RN/L=A	M=I	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
	2	74	1.20 2.5	0.0	B3WBF14	0.0	0	0	0	0	FREE

POINT	ALPHA	BETA	CNF1	CM1	CA1	XCPF1	YCPF1	CNF2	CM2	CA2	XCPF2	YCPF2
1	-1.62	0.0	-0.0033	0.0018	0.0025	-0.3951	-0.7837	-0.0065	-0.0004	-0.0278	0.0086	0.5977
2	-0.54	0.0	-0.0034	0.0018	0.0036	-0.5340	-1.5760	-0.0111	-0.0011	-0.0126	0.1008	1.1359
3	0.45	0.0	-0.0042	0.0016	0.0015	-0.2766	-0.3774	0.0259	-0.0033	0.0005	-0.1291	0.0186
4	1.45	0.0	-0.0034	0.0011	0.0014	-0.2861	-0.3770	0.0635	-0.0047	0.0149	-0.0739	0.2347
5	2.50	0.0	-0.0035	0.0013	0.0013	-0.2757	-0.3793	0.1086	-0.0055	0.0298	-0.0514	0.2885
6	3.52	0.0	-0.0037	0.0012	0.0016	-0.2749	-0.3780	0.1491	-0.0064	0.0459	-0.0432	0.3077
7	5.50	0.0	-0.0041	0.0007	-0.0002	-0.1619	-0.6917	0.2664	-0.0060	0.0791	-0.0325	0.3209
8	9.72	0.0	-0.0039	0.0015	0.0025	-0.3454	-2.2316	0.4343	-0.0101	0.1365	-0.0232	0.3005
9	13.84	0.0	-0.0028	0.0015	0.0074	-0.8170	-3.1617	0.6144	-0.0108	0.1715	-0.0176	0.2791
10	18.24	0.0	-0.0045	0.0019	0.0122	-0.2779	-3.4906	0.7576	-0.0094	0.2039	-0.0125	0.2692
11	23.48	0.0	-0.0019	0.0006	0.0087	-0.7173	-4.5550	0.8695	-0.0111	0.2172	-0.0137	0.2683
12	28.24	0.0	0.0051	0.0011	0.0082	0.2178	1.6277	0.9059	-0.0104	0.2436	-0.0203	0.2689
13	28.87	0.0	0.0124	0.0022	0.0215	0.0967	0.9128	0.9274	-0.0227	0.2482	-0.0285	0.2675

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	PXIS*6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
P	74	1.26	2.5	0.0	A3*UF14	0.0	0	0	0	0	FREE

POINT	ALPHA	BETA	CNF3	CM3	CA3	XCPF3	YCPF3	CNF4	CM4	CA4	XCPF4	YCPF4
1	-1.62	0.0	-0.0214	-0.0227	-0.0150	0.1234	0.2314	-0.0398	0.0006	-0.0232	-0.0193	0.5001
2	-0.54	0.0	-0.0217	-0.0224	-0.0048	0.1314	0.2227	-0.0042	0.0005	-0.0092	-0.1074	2.1933
3	0.45	0.0	-0.0201	-0.0225	-0.0002	0.1228	0.3065	0.0333	-0.0010	0.0075	-0.0312	0.2237
4	1.45	0.0	-0.0211	-0.0226	-0.0058	0.1233	0.2751	0.0694	-0.0025	0.0219	-0.0354	0.3152
5	2.50	0.0	-0.0224	-0.0228	-0.0065	0.1251	0.2054	0.1093	-0.0038	0.0392	-0.0346	0.3587
6	3.52	0.0	-0.0227	-0.0235	-0.0057	0.1325	0.2294	0.1504	-0.0046	0.0561	-0.0308	0.3730
7	5.59	0.0	-0.0240	-0.0231	-0.0055	0.1270	0.2294	0.2412	-0.0076	0.0904	-0.0407	0.3747
8	6.72	0.0	-0.0251	-0.0234	-0.0051	0.1340	0.2038	0.4221	-0.0103	0.1469	-0.0243	0.3481
9	13.89	0.0	-0.0251	-0.0238	-0.0051	0.1565	0.2014	0.5982	-0.0123	0.1910	-0.0206	0.3193
10	14.24	0.0	-0.0263	-0.0242	-0.0039	0.1585	0.1442	0.7350	-0.0138	0.2287	-0.0188	0.3112
11	20.48	0.0	-0.0275	-0.0245	-0.0041	0.1638	0.1452	0.7491	-0.0142	0.2417	-0.0180	0.3064
12	26.24	0.0	-0.0252	-0.0250	-0.0010	0.1496	0.0338	0.7864	-0.0186	0.2690	-0.0210	0.3035
13	25.57	0.0	-0.0273	-0.0251	-0.0002	0.1484	-0.0070	0.9057	-0.0202	0.2726	-0.0223	0.3009

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 3
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RELOAD	PWI	CURF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2	75	1.30	2.5	0.0	03.0P14	0.0	0	0	0	0	FREE

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-1.61	0.0	-0.1747	0.0038	0.0342	-0.1373	-0.0029	0.5101	0.1801	0.3300	-1.7482
2	-0.55	0.0	-0.0471	0.1156	0.0432	-0.1246	-0.0027	0.5069	0.1816	0.3273	-2.7640
3	0.45	0.0	0.0811	0.0728	0.0303	-0.1361	-0.0019	0.5077	0.1832	0.3245	1.7692
4	1.50	0.0	0.1631	-0.0342	0.0360	-0.1147	-0.0031	0.5031	0.1810	0.3221	-0.2738
5	2.52	0.0	0.2424	-0.1492	0.0377	-0.1239	-0.0030	0.5029	0.1804	0.3225	-0.6154
6	3.55	0.0	0.3427	-0.3074	0.0418	-0.1247	-0.0033	0.5008	0.1800	0.3207	-0.8475
7	5.59	0.0	0.6152	-0.6708	0.0402	-0.1156	-0.0030	0.5136	0.1826	0.3313	-1.0928
8	9.76	0.0	1.2225	-1.4564	0.0455	-0.1236	-0.0016	0.5357	0.2078	0.3279	-1.1917
9	13.96	0.0	1.5710	-2.2414	0.0317	-0.0511	0.0032	0.5367	0.2219	0.3146	-1.1361
10	18.36	0.0	3.0079	-2.7773	0.0176	0.0443	-0.0014	0.5353	0.2294	0.3059	-0.9251
11	20.59	0.0	3.6056	-2.8316	0.0219	0.0667	-0.0054	0.5284	0.2381	0.2903	-0.7853
12	25.36	0.0	5.3594	-3.0153	0.0127	0.1323	-0.0123	0.5297	0.2734	0.2564	-0.5616
13	28.78	0.0	6.1717	-3.4005	0.0269	0.1067	-0.0112	0.5368	0.2880	0.2488	-0.5458

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RNLO=6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2	79	1.30	2.5	0.0	B3WF14	0.0	0	0	0	0	FREE

POINT	ALPHA	BETA	CNF1	CM1	CA1	XCPF1	YCPF1	CNF2	CM2	CA2	XCPF2	YCPF2
1	-1.61	0.0	0.0152	0.0136	0.0134	0.0119	0.9130	-0.0531	0.0024	-0.0134	-0.0443	0.4391
2	-0.55	0.0	0.0165	0.0106	0.0141	0.0256	0.9716	-0.0181	0.0004	-0.0166	-0.0465	0.9178
3	0.45	0.0	0.0120	-0.0042	0.0108	-0.0134	0.5492	0.0181	0.0003	-0.0073	-0.0187	-0.4521
4	1.50	0.0	0.0116	0.0002	0.0092	0.0026	0.5423	0.0514	-0.0015	0.0072	-0.0283	0.1403
5	2.52	0.0	0.0115	-0.0008	0.0086	-0.0347	0.5360	0.0699	-0.0021	0.0191	-0.0229	0.2138
6	3.55	0.0	0.0101	-0.0005	0.0079	-0.0795	0.7455	0.1305	-0.0032	0.0358	-0.0247	0.2742
7	5.59	0.0	0.0121	-0.0013	0.0100	-0.0425	0.7484	0.2203	-0.0056	0.0668	-0.0256	0.3123
8	9.76	0.0	0.0116	-0.0006	0.0104	-0.0723	1.2566	0.3917	-0.0070	0.1131	-0.0179	0.2687
9	13.90	0.0	0.0071	-0.0008	0.0051	-0.0523	2.1068	0.5620	-0.0067	0.1643	-0.0086	0.2663
10	18.36	0.0	-0.0177	-0.0013	0.0052	0.0720	-0.2967	0.6742	-0.0061	0.1795	-0.0120	0.2647
11	20.59	0.0	-0.0154	0.0018	0.0019	-0.0146	-0.1018	0.7305	-0.0090	0.1968	-0.0123	0.2612
12	24.38	0.0	-0.0402	0.0001	-0.0095	-0.0027	0.2433	0.8069	-0.0177	0.2167	-0.0219	0.2660
13	28.70	0.0	-0.0245	0.0013	-0.0015	-0.0704	0.0617	0.8604	-0.0227	0.2359	-0.0262	0.2723

ARNOLD ENGINEERING DEVELOPMENT CENTER (AEDC) PROPULSION WIND TUNNEL FACILITY (PWT) AERODYNAMIC WIND TUNNEL (4T)

PAGE 3 OF 3
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RE/FT	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2	75	1.30	2.6	0.0	03.0F14	0.0	0	0	0	0	FREE

POINT	ALPHA	BETA	CNF3	CM3	CN3	XCPF3	YCPF3	CNF4	CM4	CA4	XCPF4	YCPF4
1	-1.01	0.0	-0.0437	-0.0036	0.0005	0.6667	-0.0885	-0.0468	0.0035	-0.0275	-0.0640	0.5885
2	-0.55	0.0	-0.0398	-0.0147	0.0060	0.5417	-0.0594	-0.0408	0.0015	-0.0119	-0.1641	1.3507
3	0.45	0.0	-0.0265	-0.0250	0.0064	0.5852	-0.0517	0.0255	0.0002	0.0028	0.0090	0.1090
4	1.50	0.0	-0.0087	-0.0047	0.0063	0.5852	-0.0401	0.0654	0.0001	0.0153	0.0011	0.2345
5	2.52	0.0	-0.0094	-0.0055	0.0022	0.5467	-0.2308	0.0956	-0.0017	0.0330	-0.0176	0.3649
6	3.55	0.0	-0.0094	-0.0056	0.0021	0.6015	-0.2264	0.1364	-0.0026	0.0480	-0.0190	0.3523
7	5.59	0.0	-0.0193	-0.0158	0.0016	0.5659	-0.1525	0.2205	-0.0051	0.0798	-0.0231	0.3619
8	9.76	0.0	-0.0119	-0.0062	0.0009	0.5224	-0.0777	0.3847	-0.0076	0.1310	-0.0197	0.3606
9	13.98	0.0	-0.0176	-0.0104	-0.0011	0.2863	0.0625	0.5610	-0.0091	0.1708	-0.0168	0.3158
10	18.36	0.0	-0.0296	-0.0038	-0.0040	0.1593	0.1695	0.6667	-0.0138	0.2073	-0.0206	0.3118
11	20.59	0.0	-0.0276	-0.0023	-0.0038	0.1733	0.1689	0.7120	-0.0142	0.2179	-0.0208	0.3060
12	26.38	0.0	-0.0296	-0.0060	-0.0004	0.2936	0.0417	0.7476	-0.0250	0.2442	-0.0318	0.3100
13	28.76	0.0	-0.0247	-0.0068	0.0008	0.2665	-0.0168	0.8341	-0.0280	0.2601	-0.0334	0.3099

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	REI=6	PHI	CONF	L	DEL1	DEL2	DEL3	DELA	TRANSITION
2	60	0.60	2.5	0.0	B3.0F21	3.0	0	0	0	0	FREE

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	ACP
1	-1.70	0.0	-0.1144	0.1175	-0.0287	0.0546	-0.0011	0.2841	0.1341	0.1499	-1.0369
2	-0.65	0.0	-0.0171	0.0257	-0.0264	0.0516	-0.0003	0.2845	0.1331	0.1514	-1.5003
3	0.38	0.0	0.0535	-0.0281	-0.0289	0.0713	-0.0021	0.2840	0.1330	0.1510	-0.5257
4	1.38	0.0	0.1402	-0.1197	-0.0267	0.0664	-0.0010	0.2825	0.1303	0.1521	-0.8538
5	2.38	0.0	0.2308	-0.2331	-0.0261	0.0713	-0.0027	0.2863	0.1334	0.1529	-1.0895
6	3.44	0.0	0.3367	-0.3765	-0.0268	0.0703	-0.0022	0.2880	0.1361	0.1518	-1.1309
7	5.47	0.0	0.5254	-0.6185	-0.0251	0.0741	-0.0010	0.2948	0.1441	0.1506	-1.1726
8	7.80	0.0	0.7307	-1.0001	-0.0252	0.0474	0.0024	0.3315	0.1763	0.1552	-1.0789
9	13.74	0.0	1.3715	-1.1584	-0.0208	0.0973	0.0022	0.3526	0.2183	0.1343	-0.8658
10	17.96	0.0	1.6675	-1.1681	-0.0124	0.0971	-0.0013	0.3574	0.2787	0.0787	-0.6362
11	20.87	0.0	2.1635	-1.1175	-0.0052	0.0718	-0.0026	0.3591	0.3083	0.0508	-0.5213
12	25.44	0.0	2.9140	-0.5609	-0.0013	0.0952	0.0052	0.3974	0.4080	-0.0107	-0.2268
13	27.76	0.0	3.3400	-0.2578	0.0336	0.0422	0.0098	0.3871	0.4306	-0.0435	-0.2262

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 2 OF 3
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RN/D=6	PHI	CONF	L	DEL1	DEL2	DEL3	DELA	TRANSITION
2	80	0.60	2.5	0.0	B3=0F21	0.6	0	0	0	0	FREE

POINT	ALPHA	BETA	CNF1	CM1	CH1	XCPF1	YCPF1	CNF2	CM2	CH2	XCPF2	YCPF2
1	-1.70	0.0	-0.0134	-0.0042	0.0245	0.5296	-1.3291	-0.0500	-0.0237	-0.0315	0.4055	0.5370
2	-0.65	0.0	-0.0096	-0.0020	-0.0131	0.2047	1.4407	-0.0068	-0.0020	-0.0054	0.3077	0.8188
3	0.34	0.0	-0.0057	-0.0021	0.0013	0.3611	-0.0577	0.0456	0.0151	0.0135	0.3313	0.2969
4	1.38	0.0	-0.0040	-0.0020	0.0049	0.2889	-0.9872	0.1905	0.0347	0.0407	0.3253	0.3021
5	2.38	0.0	-0.0073	-0.0046	-0.0005	0.6296	0.1206	0.1402	0.0532	0.0669	0.2952	0.3715
6	3.04	0.0	-0.0057	-0.0021	0.0077	0.3611	-1.3399	0.2629	0.0777	0.0931	0.2957	0.3541
7	5.47	0.0	-0.0073	-0.0046	0.0023	0.6293	-0.3788	0.3883	0.0952	0.1499	0.2554	0.3859
8	9.60	0.0	0.0	0.0	0.0	0.0	0.0	0.5426	0.1016	0.2300	0.1744	0.3949
9	13.78	0.0	-0.0043	-0.0005	-0.0268	0.1428	0.2934	0.6817	0.0780	0.2560	0.1145	0.3785
10	17.96	0.0	-0.0213	-0.0057	-0.0047	0.2642	0.2229	0.7559	0.0735	0.2651	0.0972	0.3772
11	20.07	0.0	-0.0248	-0.0064	-0.0143	0.3227	0.6962	0.7796	0.0707	0.3054	0.0907	0.3918
12	25.44	0.0	-0.0295	-0.0068	-0.0169	0.3291	0.3382	0.7605	0.0628	0.3055	0.0825	0.4018
13	27.78	0.0	-0.0096	-0.0055	0.0225	0.8634	-3.5254	0.6207	0.0624	0.3278	0.0768	0.3994

MARTIN MISSILE TAIL EFFECTS DATA

TEST PART MACH REI-6 PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION
3 80 3.00 2.5 0.0 83.0721 0.0 0 0 0 0 FREE

POINT	ALPHA	BETA	CNF3	CN3	CB3	XCPF3	YCPF3	CNF4	CN4	CB4	XCPF4	YCPF4
1	-1.76	0.0	-0.0025	-0.0125	-0.0086	0.6696	0.4248	-0.0810	-0.0276	-0.0203	0.3403	0.4974
2	-0.65	0.0	-0.0212	-0.0124	-0.0107	0.4893	0.4857	-0.0314	-0.0033	-0.0061	0.1039	0.1926
3	0.36	0.0	-0.0177	-0.0078	-0.0116	0.4256	0.6862	0.0155	0.0106	0.0069	0.6861	0.4433
4	1.39	0.0	-0.0256	-0.0110	-0.0105	0.5350	0.5073	0.0741	0.0312	0.0316	0.4215	0.4272
5	2.38	0.0	-0.0284	-0.0148	-0.0112	0.6036	0.4656	0.1374	0.0514	0.0589	0.3741	0.4283
6	3.44	0.0	-0.0211	-0.0111	-0.0123	0.5157	0.5834	0.2102	0.0679	0.0931	0.3232	0.4431
7	5.47	0.0	-0.0297	-0.0186	-0.0116	0.5572	0.3657	0.3434	0.0965	0.1472	0.2811	0.4286
8	9.60	0.0	-0.0395	-0.0209	-0.0108	0.5769	0.2751	0.5389	0.0962	0.2431	0.1784	0.4511
9	13.78	0.0	-0.0396	-0.0132	-0.0146	0.3834	0.4254	0.6361	0.0735	0.2867	0.1155	0.4161
10	17.96	0.0	-0.0427	-0.0245	-0.0095	0.5734	0.2218	0.7364	0.0837	0.3011	0.1137	0.4089
11	20.07	0.0	-0.0416	-0.0201	-0.0085	0.4966	0.2117	0.7531	0.0787	0.3172	0.1045	0.4212
12	25.44	0.0	-0.0405	-0.0237	-0.0045	0.5041	0.0964	0.7637	0.0775	0.3199	0.1015	0.4189
13	27.74	0.0	-0.0444	-0.0212	-0.0031	0.4714	0.0696	0.6299	0.0821	0.3396	0.0998	0.4091

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)

PAGE 1 OF 3
SHEET 1 OF 1

SANTIA MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	REYNOLDS	REF	CONF	L	DEL1	DEL2	DEL3	DELA	TRANSITION
2	A1	0.60	2.5	0.0	83A0F21	0.0	0	0	0	0	FREE

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-1.70	0.0	-0.1435	0.1455	-0.0275	0.0067	-0.0026	0.2943	0.1393	0.1547	-0.8231
2	-0.67	0.0	-0.0275	0.0374	-0.0282	0.0099	-0.0031	0.2927	0.1345	0.1577	-1.3580
3	0.36	0.0	0.0459	-0.0062	-0.0250	0.0071	-0.0022	0.2935	0.1326	0.1609	-0.1355
4	1.38	0.0	0.1349	-0.1206	-0.0253	0.0062	-0.0017	0.2927	0.1335	0.1592	-0.8691
5	2.40	0.0	0.2243	-0.2396	-0.0256	0.0072	-0.0041	0.2932	0.1345	0.1587	-1.0606
6	3.44	0.0	0.3111	-0.3033	-0.0230	0.0058	-0.0059	0.2963	0.1374	0.1588	-1.1822
7	5.46	0.0	0.5219	-0.4135	-0.0271	0.0033	-0.0034	0.3043	0.1456	0.1587	-1.1760
8	9.59	0.0	0.9294	-1.0050	-0.0293	0.1037	0.0012	0.3469	0.1748	0.1721	-1.0813
9	13.78	0.0	1.3353	-1.2585	-0.0273	0.1056	0.0317	0.3618	0.2243	0.1375	-0.8998
10	17.97	0.0	1.7262	-1.3136	-0.0184	0.0515	-0.0008	0.3743	0.2801	0.0942	-0.6827
11	20.14	0.0	2.2625	-1.2159	-0.0163	0.0363	-0.0016	0.3768	0.3261	0.0507	-0.5537
12	25.57	0.0	3.0155	-0.8662	0.0244	0.0303	0.0038	0.4248	0.4068	0.0260	-0.2203
13	27.88	0.0	3.4342	-0.7012	0.0184	0.0289	0.0013	0.4112	0.4329	-0.0207	-0.2021

MARTIN MISSILE TAIL EFFECTS DATA

TEST PART	MACH	EXIT-P	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
7	B1	0.85 2.5	0.0	B3-0F21	0.0	0	0	0	0	FREE

POINT	ALPHA	BETA	CNF1	CM1	CH1	XCPF1	YCPF1	CNF2	CM2	CA2	XCPF2	YCPF2
1	-1.70	0.0	-0.0164	-0.0017	0.0015	0.5288	-1.6478	-0.0506	-0.0225	-0.0465	0.4442	0.8016
2	-0.87	0.0	-0.0078	-0.0035	-0.0235	0.4496	2.9965	-0.0033	-0.0024	-0.0123	0.8306	3.0846
3	0.36	0.0	-0.0023	-0.0015	-0.0115	0.6296	0.9125	0.0493	0.0189	0.0061	0.3826	0.0828
4	1.36	0.0	-0.0055	-0.0029	0.0073	0.3605	-1.3383	0.1113	0.0376	0.0302	0.3375	0.2712
5	2.40	0.0	-0.0015	-0.0028	-0.0136	1.6249	12.6842	0.1852	0.0591	0.0563	0.3191	0.3149
6	3.44	0.0	-0.0045	-0.0068	0.0085	0.5923	-1.0017	0.2647	0.0799	0.0844	0.3018	0.3188
7	5.46	0.0	-0.0064	-0.0088	0.0032	1.6037	-0.3706	0.3843	0.1073	0.1433	0.2791	0.3729
8	9.59	0.0	-0.0081	-0.0159	0.0093	0.8486	-1.5235	0.5817	0.1074	0.2196	0.1947	0.3775
9	13.76	0.0	-0.0154	-0.0184	-0.0064	0.6267	0.2707	0.6953	0.0773	0.2568	0.1112	0.3691
10	17.97	0.0	-0.0279	-0.0119	-0.0167	0.6573	0.6656	0.7994	0.0777	0.2936	0.0972	0.3673
11	20.14	0.0	-0.0294	-0.0127	-0.0222	0.5160	0.8920	0.8046	0.0667	0.3108	0.0838	0.3864
12	25.57	0.0	-0.0017	0.0014	-0.0011	-1.1167	0.6670	0.7978	0.0651	0.3160	0.0816	0.3960
13	27.88	0.0	-0.0284	-0.0155	0.0042	0.2693	-0.2084	0.8831	0.0623	0.3423	0.0722	0.3967

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 3 OF 3
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RALO=6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2	61	0.65	2.5	0.0	83.0121	0.0	0	0	0	0	FREE

POINT	ALPHA	BETA	CNF3	CM3	CA3	YCPF3	YCPF3	CNF4	CM4	CA4	XCPF4	YCPF4
1	-1.76	0.0	-0.0231	-0.0171	-0.0126	0.7341	0.5436	-0.0803	-0.0323	-0.0417	0.4020	0.5190
2	-0.67	0.0	-0.0244	-0.0180	-0.0114	0.6647	0.4757	-0.0312	-0.0065	-0.0092	0.2080	0.2938
3	0.38	0.0	-0.0214	-0.0152	-0.0150	0.6097	0.7176	0.0187	0.0045	0.0051	0.5080	0.2734
4	1.38	0.0	-0.0271	-0.0180	-0.0126	0.6663	0.4673	0.0402	0.0353	0.0268	0.4399	0.3591
5	2.40	0.0	-0.0254	-0.0206	-0.0120	0.7125	0.4147	0.1366	0.0533	0.0592	0.3843	0.4269
6	3.44	0.0	-0.0244	-0.0165	-0.0137	0.6701	0.5565	0.2145	0.0742	0.0899	0.3457	0.4191
7	5.46	0.0	-0.0243	-0.0147	-0.0133	0.6562	0.4458	0.3406	0.1052	0.1461	0.3096	0.4299
8	9.59	0.0	-0.0414	-0.0223	-0.0141	0.5380	0.3414	0.5344	0.1035	0.2349	0.1937	0.4395
9	13.78	0.0	-0.0424	-0.0211	-0.0191	0.5036	0.3368	0.6569	0.0731	0.2740	0.1113	0.4171
10	17.97	0.0	-0.0441	-0.0254	-0.0134	0.5756	0.3035	0.7627	0.0429	0.3116	0.1087	0.4086
11	20.14	0.0	-0.0452	-0.0248	-0.0093	0.5438	0.2057	0.7842	0.0765	0.3305	0.0975	0.4215
12	25.57	0.0	-0.0484	-0.0243	-0.0043	0.6095	0.0880	0.7905	0.0825	0.3214	0.1044	0.4068
13	27.84	0.0	-0.0484	-0.0253	-0.0053	0.5857	0.1135	0.6505	0.0779	0.3510	0.0916	0.4127

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RN/FT	PHI	CONF	L	DEL1	DEL2	DEL3	DELA	TRANSITION
2	A2	0.92	2.5	0.0	B3B0F21	0.0	0	0	0	0	FREE

POINT	ALPHA	BETA	CN	CLN	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-1.76	0.0	-0.1045	0.0731	-0.0267	0.0576	-0.0063	0.3274	0.1342	0.1843	-0.4991
2	-0.69	0.0	-0.0327	0.0217	-0.0234	0.0644	-0.0031	0.3255	0.1366	0.1869	-1.2745
3	0.36	0.0	0.0454	0.0305	-0.0218	0.0506	-0.0021	0.3260	0.1342	0.1898	0.0120
4	1.37	0.0	0.1287	-0.0725	-0.0247	0.0704	-0.0005	0.3237	0.1355	0.1882	-0.5638
5	2.40	0.0	0.2346	-0.2154	-0.0205	0.0649	-0.0052	0.3249	0.1363	0.1887	-0.9541
6	3.43	0.0	0.3347	-0.3924	-0.0195	0.0644	-0.0056	0.3284	0.1391	0.1893	-1.1578
7	5.44	0.0	0.5217	-0.5977	-0.0182	0.0302	-0.0051	0.3464	0.1565	0.1899	-1.1455
8	9.62	0.0	0.9361	-1.1032	-0.0300	0.1044	0.0011	0.3984	0.2071	0.1913	-1.0717
9	13.41	0.0	1.4641	-1.3448	-0.0323	0.1359	0.0003	0.4098	0.2496	0.1600	-0.9691
10	16.03	0.0	2.0225	-1.5061	-0.0196	0.1120	-0.0060	0.4292	0.3345	0.0947	-0.7467
11	20.17	0.0	2.3144	-1.3344	0.0012	0.0723	-0.0029	0.4249	0.3892	0.0358	-0.6058
12	25.47	0.0	3.2374	-0.8975	0.0040	0.0348	-0.0017	0.4644	0.4118	0.0527	-0.2154
13	29.06	0.0	3.7593	-0.6267	-0.0141	0.1219	-0.0042	0.4535	0.4358	0.0177	-0.1130

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 2 OF 3
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	RAPI	MACH	RATIO-B	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2	82	0.92	2.5	0.0	63.0621	0.0	0	0	0	0	FREE

POINT	ALPHA	BETA	CNF1	CM1	CH1	XCPF1	YCPF1	CNF2	CM2	CB2	XCPF2	YCPF2
1	-1.74	0.0	-0.0344	-0.0111	0.0135	0.3433	-0.3783	-0.0384	-0.0320	-0.0375	0.8249	0.9672
2	-0.89	0.0	-0.0198	-0.0053	-0.0094	0.2694	-0.4803	-0.0750	-0.0056	-0.0158	1.1048	3.0989
3	0.36	0.0	-0.0127	-0.0052	0.0144	0.4070	-0.3741	0.0401	0.0234	-0.0013	0.5845	-0.0328
4	1.37	0.0	-0.0192	-0.0093	0.0023	0.4834	-0.1180	0.0879	0.0476	0.0207	0.5413	0.2356
5	2.40	0.0	-0.0264	-0.0083	-0.0003	0.4630	0.0373	0.1747	0.0711	0.0449	0.3960	0.2722
6	3.43	0.0	-0.0344	-0.0087	0.0119	0.9259	-1.2626	0.2641	0.0928	0.0797	0.3514	0.3018
7	5.49	0.0	-0.0478	-0.0123	0.0063	1.3424	-0.8027	0.3845	0.1215	0.1374	0.3160	0.3575
8	7.52	0.0	-0.0642	-0.0098	-0.0050	1.6227	1.2006	0.5716	0.1282	0.2147	0.2242	0.3755
9	13.51	0.0	-0.0170	-0.0121	-0.0070	0.7114	0.4143	0.7442	0.0798	0.2723	0.1072	0.3668
10	19.63	0.0	-0.0350	-0.0163	-0.0104	0.6647	0.3074	0.9807	0.0749	0.3271	0.0856	0.3714
11	20.17	0.0	-0.0314	-0.0128	-0.0234	0.3953	0.7721	0.8607	0.0662	0.3354	0.0751	0.3808
12	25.67	0.0	-0.0252	-0.0031	0.0061	0.1224	-0.2439	0.8866	0.0432	0.3412	0.0713	0.3848
13	28.68	0.0	-0.0524	-0.0134	-0.0173	0.3031	0.1402	0.9429	0.0543	0.3679	0.0638	0.3905

PARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	ALT	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2		.62	0.92	2.5	0.0	M3=0F21	0.0	0	0	0	0	FREE

POINT	ALPHA	BETA	CNF3	CM3	CB3	XCPF3	YCPF3	CNF4	CM4	CB4	XCPF4	YCPF4
1	-1.76	0.0	-0.0235	-0.0215	-0.0147	0.7545	0.6471	-0.0718	-0.0394	-0.0393	0.5079	0.5449
2	-0.69	0.0	-0.0276	-0.0211	-0.0131	0.7642	0.4705	-0.0274	-0.0090	-0.0080	0.3297	0.2904
3	0.38	0.0	-0.0216	-0.0178	-0.0153	0.8056	0.7146	0.0162	0.0109	0.0038	0.6736	0.2335
4	1.37	0.0	-0.0215	-0.0160	-0.0153	0.7410	0.7100	0.0667	0.0389	0.0253	0.5666	0.3677
5	2.44	0.0	-0.0233	-0.0186	-0.0147	0.7919	0.6302	0.1325	0.0651	0.0543	0.4915	0.4097
6	3.43	0.0	-0.0194	-0.0163	-0.0149	0.8234	0.7204	0.2097	0.0894	0.0844	0.4265	0.4028
7	5.49	0.0	-0.0235	-0.0196	-0.0136	0.7787	0.5336	0.3325	0.1200	0.1387	0.3608	0.4172
8	9.62	0.0	-0.0244	-0.0227	-0.0165	0.5185	0.4257	0.5256	0.1317	0.2365	0.2506	0.4508
9	13.81	0.0	-0.0434	-0.0267	-0.0194	0.4761	0.4392	0.7095	0.0783	0.2943	0.1103	0.4148
10	18.03	0.0	-0.0441	-0.0254	-0.0143	0.5767	0.3231	0.8392	0.0933	0.3424	0.0992	0.4080
11	20.17	0.0	-0.0492	-0.0304	-0.0183	0.6047	0.2014	0.8567	0.0726	0.3619	0.0847	0.4224
12	25.67	0.0	-0.0502	-0.0306	-0.0181	0.6095	0.1617	0.8650	0.0756	0.3549	0.0874	0.4149
13	26.48	0.0	-0.0517	-0.0315	-0.0157	0.6045	0.1168	0.9223	0.0732	0.3804	0.0796	0.4124

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)

MARTIN MISSILE TAIL EFFECTS DATA

TEST FACI MACH REY/FT PHI CONE L DEL1 DEL2 DEL3 DEL4 TRANSITION
2 B3 0.90 2.5 0.0 B3-8F21 0.0 0 0 0 0 FREE

POINT	ALPHA	BETA	CN	CLN	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-1.70	0.0	-0.1433	0.2527	-0.0213	0.0531	-0.0058	0.4089	0.1614	0.2471	-1.7633
2	-0.87	0.0	-0.0413	0.0985	-0.0196	0.0450	-0.0063	0.4245	0.1542	0.2703	-2.3819
3	0.37	0.0	0.0545	-0.1580	-0.0171	0.0381	-0.0079	0.4218	0.1644	0.2574	-0.9919
4	1.38	0.0	0.1546	-0.2133	-0.0174	0.0366	-0.0080	0.4181	0.1656	0.2525	-1.3362
5	2.42	0.0	0.2731	-0.2114	-0.0169	0.0400	-0.0087	0.4122	0.1717	0.2406	-1.5065
6	3.42	0.0	0.3813	-0.5959	-0.0164	0.0449	-0.0072	0.4097	0.1704	0.2393	-1.5629
7	5.49	0.0	0.6016	-0.4460	-0.0132	0.0414	-0.0077	0.4234	0.1640	0.2398	-1.5741
8	9.65	0.0	1.0200	-1.2575	-0.0230	0.0795	-0.0052	0.4744	0.2340	0.2404	-1.2568
9	13.52	0.0	1.4670	-1.8367	-0.0306	0.1314	-0.0064	0.6973	0.3396	0.1575	-0.9588
10	18.09	0.0	2.1491	-1.8554	-0.0364	0.1505	-0.0114	0.5065	0.4558	0.0507	-0.7714
11	20.28	0.0	2.5893	-1.5871	-0.0301	0.1568	-0.0105	0.5133	0.4556	0.0576	-0.6432
12	25.99	0.0	3.6550	-0.7284	0.0160	0.0509	0.0008	0.5048	0.4998	0.0050	-0.1992
13	28.37	0.0	4.2500	-0.1380	0.0424	0.0455	0.0004	0.5054	0.4985	0.0108	-0.0325

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	PX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2	B3	0.90	2.5	0.0	B3=0P21	0.0	0	0	0	0	FREE

POINT	ALPHA	dFTa	CNF1	CM1	CH1	XCPF1	YCPF1	CNF2	CM2	CB?	XCPF2	YCPF2
1	-1.70	0.0	-0.0204	-0.0074	0.0225	0.3615	-1.0985	-0.0470	-0.0218	-0.0604	0.2268	0.6225
2	-0.67	0.0	-0.0176	-0.0029	-0.0176	0.1637	1.0103	-0.0121	-0.0008	-0.0210	0.0659	1.7996
3	0.37	0.0	-0.0110	0.0012	0.0092	-0.1089	-0.3781	0.0763	0.0235	0.0059	0.3082	0.0768
4	1.38	0.0	-0.0140	-0.0054	0.0036	0.3269	-0.1941	0.1398	0.0376	0.0391	0.2690	0.2797
5	2.42	0.0	-0.0156	-0.0048	-0.0067	0.2594	1.4341	0.2339	0.0589	0.0756	0.2520	0.3233
6	3.42	0.0	-0.0196	-0.0062	0.0123	0.2143	-0.6258	0.3280	0.0790	0.1029	0.2408	0.3138
7	5.44	0.0	-0.0261	-0.0059	0.0106	0.2284	-0.3785	0.5003	0.0933	0.1766	0.1865	0.3530
8	9.05	0.0	-0.0348	-0.0003	0.0107	0.0136	-0.5416	0.6932	0.1368	0.2809	0.1944	0.3850
9	13.82	0.0	-0.0350	-0.0057	-0.0078	0.1639	0.2233	0.8146	0.0951	0.3133	0.1161	0.3824
10	18.09	0.0	-0.0342	-0.0069	-0.0127	0.2053	0.2623	0.9697	0.0721	0.3703	0.0729	0.3784
11	20.26	0.0	-0.0342	-0.0092	-0.0196	0.1842	0.2453	1.0652	0.0569	0.4120	0.0628	0.3868
12	25.09	0.0	-0.0271	-0.0038	0.0103	0.1270	-0.3783	1.0767	0.0532	0.4228	0.0494	0.3927
13	26.17	0.0	-0.0340	-0.0062	-0.0083	0.1637	0.2198	1.0950	0.0586	0.4235	0.0538	0.3868

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 3 OF 3
SHEET 1 OF 1
MARTI - MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	REYNOLDS	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2	B3	0.90	2.5	0.0	83.0821	0.0	0	0	0	0	FREE

POINT	ALPHA	BETA	CN3	CM3	CA3	XCPF3	YCPF3	CN4	CM4	CA4	XCPF4	YCPF4
1	-1.74	0.0	-0.0235	-0.0154	-0.0157	0.6557	0.0691	-0.1216	-0.0247	-0.0645	0.2031	0.5300
2	-0.87	0.0	-0.0294	-0.0243	-0.0125	0.8197	0.4721	-0.0506	0.0027	-0.0768	-0.0522	0.4094
3	0.37	0.0	-0.0227	-0.0193	-0.0157	0.8507	0.6918	0.0200	0.0186	0.0035	0.7534	0.1447
4	1.36	0.0	-0.0293	-0.0233	-0.0132	0.7957	0.4492	0.0999	0.0411	0.0357	0.4109	0.3569
5	2.42	0.0	-0.0301	-0.0252	-0.0113	0.8372	0.3760	0.1422	0.0597	0.0734	0.3107	0.3822
6	3.42	0.0	-0.0295	-0.0185	-0.0184	0.7155	0.5624	0.2791	0.0755	0.1108	0.2707	0.3968
7	5.44	0.0	-0.0314	-0.0227	-0.0114	0.6926	0.3549	0.3813	0.0503	0.1630	0.2047	0.4167
8	9.45	0.0	-0.0341	-0.0232	-0.0131	0.6095	0.3022	0.6418	0.1287	0.2618	0.2005	0.4391
9	13.52	0.0	-0.0344	-0.0215	-0.0123	0.4735	0.3067	0.7660	0.1018	0.3196	0.1329	0.6178
10	18.04	0.0	-0.0350	-0.0245	-0.0141	0.5415	0.1869	0.9509	0.0469	0.3432	0.0914	0.4030
11	20.28	0.0	-0.0357	-0.0322	-0.0079	0.5845	0.1275	1.0101	0.0750	0.4209	0.0743	0.4167
12	25.49	0.0	-0.0422	-0.0336	-0.0089	0.6359	0.0573	1.0669	0.0639	0.4372	0.0599	0.4097
13	28.37	0.0	-0.0505	-0.0321	-0.0144	0.6368	0.0395	1.2776	0.0671	0.4368	0.0622	0.4035

PARTIAL MISSILE TAIL EFFECTS DATA

TEST	PART	MACH NX10**6	PHI	CONE	L	DEL1	DEL2	DEL3	DELA	TRANSITION
2	84	1.10 2.5	0.0	8.0E+21	0.0	0	0	0	0	FREE

POINT	ALPHA	BETA	CA	CLN	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-1.71	0.00	-0.1[illegible]	0.2447	-0.0395	0.1083	-0.0110	0.5729	0.2091	0.3639	-1.6419
2	-0.68	0.0	-0.1401	0.0691	-0.0335	0.1020	-0.0102	0.5718	0.2067	0.3651	-1.5786
3	0.37	0.00	0.0[illegible]	-0.1033	-0.0331	0.1006	-0.0108	0.5729	0.2101	0.3629	-1.6185
4	1.38	0.0	0.1410	-0.3069	-0.0335	0.1034	-0.0115	0.5720	0.2157	0.3564	-1.6951
5	2.38	0.00	0.2503	-0.5105	-0.0322	0.0950	-0.0113	0.5703	0.2171	0.3538	-1.7235
6	3.43	0.0	0.4118	-0.7991	-0.0293	0.0930	-0.0107	0.5712	0.2236	0.3477	-1.6985
7	5.51	0.0	0.8327	-1.4[illegible]	-0.0367	0.0[illegible]	-0.0099	0.5804	0.2361	0.3443	-1.6044
8	9.65	0.0	1.1274	-1.9[illegible]	-0.0263	0.0993	-0.0109	0.6011	0.2579	0.3432	-1.4073
9	13.81	0.0	1.5957	-1.[illegible]	-0.0322	0.1253	-0.0090	0.6126	0.2998	0.3128	-0.9113
10	18.25	0.0	2.2734	-1.3399	-0.0315	0.1566	-0.0121	0.6121	0.3597	0.2524	-0.5090
11	20.55	0.0	2.7[illegible]	-1.[illegible]	-0.0[illegible]	0.1[illegible]	-0.00[illegible]	0.5976	0.3623	0.2553	-0.4171
12	23.26	0.0	4.1270	-0.4671	0.0053	0.1061	-0.0030	0.5721	0.3621	0.2100	-0.1132
13	24.74	0.0	4.[illegible]	0.0[illegible]	-0.[illegible]	0.1[illegible]	-0.0079	0.5598	0.3804	0.1793	0.0038

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 2 OF 3
SHEET 1 OF 1

PARTIAL MISSILE TAIL EFFECTS DATA

TEST PART MACH NUMBER PHI CONF L DEL1 DEL2 DEL3 DELA TRANSITION
2 B4 1.16 2.5 0.0 d3.0F21 0.0 0 0 0 0 FREE

POINT	ALPHA	BETA	CNF1	Cm1	Cn1	XCPF1	YCPF1	CNF2	Cm2	Cn2	XCPF2	YCPF2
1	-1.71	0.0	-0.0236	-0.0211	0.0089	0.0477	-1.3784	-0.0931	-0.0224	-0.0467	0.2401	0.5019
2	-0.06	0.0	-0.0206	0.0122	-0.0133	-0.1052	0.6447	-0.0073	-0.0040	-0.0052	0.5504	0.7101
3	0.37	0.0	-0.0157	0.0036	0.0016	-0.1438	-0.0550	0.0791	0.0179	0.0199	0.2260	0.2518
4	1.38	0.0	-0.0295	0.0017	-0.0017	-0.0741	0.0739	0.1627	0.0324	0.0560	0.1949	0.3441
5	2.38	0.0	-0.0168	0.0129	-0.0023	-0.1463	0.1267	0.2602	0.0457	0.0853	0.1756	0.3278
6	3.43	0.0	-0.0199	0.0083	0.0026	-0.2144	-0.1450	0.3502	0.0557	0.1237	0.1590	0.3534
7	5.51	0.0	-0.0213	-0.0067	-0.0026	-0.3328	0.1149	0.5256	0.0694	0.1882	0.1319	0.3579
8	9.55	0.0	-0.0145	0.0043	-0.0093	-0.2146	0.4779	0.8437	0.0868	0.3134	0.1029	0.3715
9	13.91	0.0	-0.0335	-0.0064	-0.0115	-0.0256	0.3622	0.9405	0.1029	0.3777	0.1095	0.4010
10	18.25	0.0	-0.0404	-0.0015	-0.0114	0.0303	0.2432	1.0013	0.0664	0.4161	0.0614	0.3848
11	20.55	0.0	-0.0275	0.0024	-0.0152	-0.1056	0.5535	1.1496	0.0593	0.4490	0.0516	0.3897
12	20.78	0.0	-0.0257	0.0005	0.0006	-0.0157	-0.0214	1.2890	0.0568	0.4946	0.0456	0.3876
13	24.79	0.0	-0.0575	-0.0128	-0.0226	0.0485	0.3936	1.3269	0.0537	0.5195	0.0404	0.3915

MARTI- MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RN/FT	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2	A4	1.10	2.5	0.0	03A0F21	0.0	0	0	0	0	FREE

POINT	ALPHA	BETA	CNF3	CM3	CH3	XCPF3	YCPF3	CNF4	CM4	CH4	XCPF4	YCPF4
1	-1.71	0.0	-0.0445	-0.0269	-0.0101	0.6434	0.2488	-0.1285	-0.0673	-0.0728	0.0610	0.5667
2	-0.88	0.0	-0.0461	-0.0282	-0.0104	0.6303	0.2358	-0.0404	0.0152	-0.0294	-0.3724	0.7205
3	0.37	0.0	-0.0423	-0.0232	-0.0113	0.5479	0.2674	0.0449	0.0284	-0.0035	0.6436	-0.0781
4	1.36	0.0	-0.0478	-0.0290	-0.0060	0.6096	0.1337	0.1228	0.0426	0.0305	0.3674	0.2483
5	2.36	0.0	-0.0476	-0.0303	-0.0047	0.6365	0.0945	0.1813	0.0364	0.0621	0.2008	0.3424
6	3.43	0.0	-0.0467	-0.0285	-0.0058	0.6382	0.1305	0.2660	0.0510	0.1065	0.1780	0.3718
7	5.51	0.0	-0.0459	-0.0305	-0.0069	0.6655	0.1516	0.4765	0.0696	0.1833	0.1461	0.3844
8	8.65	0.0	-0.0469	-0.0287	-0.0088	0.6350	0.1957	0.7773	0.0810	0.3164	0.1042	0.4096
9	13.91	0.0	-0.0440	-0.0234	-0.0076	0.5223	0.1719	0.8883	0.0989	0.3856	0.1114	0.4348
10	14.25	0.0	-0.0560	-0.0291	-0.0095	0.5191	0.1754	1.0293	0.0919	0.4234	0.0796	0.4118
11	20.55	0.0	-0.0547	-0.0281	-0.0076	0.4613	0.1276	1.0977	0.0567	0.4808	0.0607	0.4197
12	24.24	0.0	-0.0508	-0.0235	-0.0053	0.4606	0.1046	1.2357	0.0596	0.5103	0.0482	0.4130
13	28.74	0.0	-0.0555	-0.0313	-0.0086	0.4845	0.0876	1.2755	0.0569	0.5265	0.0446	0.4127

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 3 HARTIN MISSILE TAIL EFFECTS DATA
SHEET 1 OF 1

TEST	MACH	MACH	RNLC=6	PHI	CONE	L	DEL1	DEL2	DEL3	DELA	TRANSITION
2	85	1.20	2.5	0.0	03.7121	0.0	0	0	0	0	FREE

POINT	ALPHA	BETA	CN	CLN	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-1.71	0.0	-0.1252	0.1252	-0.0266	0.1241	-0.0129	0.5333	0.1739	0.3594	-0.9726
2	-0.85	0.0	-0.0622	-0.0315	-0.0281	0.0725	-0.0117	0.5327	0.1742	0.3585	1.5776
3	0.35	0.0	0.0254	-0.0257	-0.0268	0.0850	-0.0107	0.5331	0.1737	0.3594	-2.2106
4	1.38	0.0	0.1014	-0.0335	-0.0288	0.0934	-0.0102	0.5315	0.1770	0.3544	-1.7917
5	2.39	0.0	0.2049	-0.0695	-0.0262	0.0953	-0.0112	0.5295	0.1799	0.3497	-1.6258
6	3.43	0.0	0.2990	-0.0192	-0.0267	0.1031	-0.0110	0.5299	0.1817	0.3483	-1.5409
7	5.56	0.0	0.4941	-0.0481	-0.0213	0.0968	-0.0114	0.5432	0.1867	0.3564	-1.3791
8	9.71	0.0	1.0949	-1.0493	-0.0144	0.0966	-0.0133	0.5866	0.2075	0.3591	-1.1421
9	13.95	0.0	1.6931	-1.3784	-0.0250	0.1386	-0.0160	0.5575	0.2132	0.3443	-0.8369
10	18.41	0.0	2.3352	-0.9154	-0.0300	0.1411	-0.0168	0.5723	0.2468	0.3255	-0.3504
11	20.70	0.0	2.6944	-0.5997	-0.0290	0.1558	-0.0123	0.5861	0.2550	0.3111	-0.2075
12	24.60	0.0	4.0238	0.2145	-0.0041	0.1832	-0.0140	0.5574	0.2749	0.2775	0.0485
13	29.14	0.0	5.1711	0.3045	-0.0154	0.1637	-0.0138	0.5507	0.2892	0.2615	0.0752

MANTI - MISSILE TAIL EFFECTS DATA

TEST	PART	ALPH	MACH	RN1	CONF	L	DEL1	DEL2	DEL3	DELA	TRANSITION
2	85	1.20	2.5	0.0	B3P0F21	0.0	0	0	0	0	FREE

POINT	ALPHA	BETA	CNF1	CM1	CN1	XCPF1	YCPF1	CNF2	CM2	CN2	XCPF2	YCPF2
1	-1.71	0.0	-0.0152	0.0113	0.0116	-0.7548	-0.6052	-0.0765	-0.0140	-0.0447	0.1833	0.5840
2	-0.86	0.0	-0.0147	0.0084	-0.0132	-0.6342	0.6965	0.0080	0.0014	-0.0061	0.1777	-1.0138
3	0.35	0.0	-0.0121	0.0064	-0.0026	-0.5576	0.2169	0.0972	0.0196	0.0188	0.2037	0.1931
4	1.38	0.0	-0.0179	0.0133	-0.0077	-0.1436	0.4303	0.1746	0.0281	0.0527	0.1611	0.3018
5	2.39	0.0	-0.0186	0.0191	-0.0031	-0.2187	0.1666	0.2574	0.0358	0.0835	0.1392	0.3244
6	3.43	0.0	-0.0148	0.0075	-0.0030	-0.0046	0.1616	0.3422	0.0460	0.1144	0.1344	0.3343
7	5.50	0.0	-0.0224	0.0184	-0.0031	-0.3093	0.1417	0.4952	0.0515	0.1784	0.1041	0.3602
8	9.71	0.0	-0.0255	0.0144	-0.0035	-0.1699	0.1387	0.7966	0.0675	0.2946	0.0844	0.3698
9	13.95	0.0	-0.0344	-0.0052	-0.0134	0.0047	0.4320	1.0116	0.0803	0.3925	0.0793	0.3886
10	14.41	0.0	-0.0061	-0.0024	-0.0312	0.0350	0.4465	1.0551	0.0725	0.4090	0.0687	0.3877
11	20.74	0.0	-0.0424	0.0036	-0.0217	-0.0867	0.5136	1.1326	0.0860	0.4443	0.0583	0.3923
12	26.60	0.0	-0.0549	0.0019	-0.0721	-0.0242	0.3401	1.2430	0.0557	0.5070	0.0434	0.3952
13	29.14	0.0	-0.0479	-0.0026	-0.0301	0.0556	0.4038	1.3346	0.0526	0.5311	0.0393	0.3980

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 3 OF 3
SHEET 1 OF 1
HANTIA MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RN/FT	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2	F5	1.20	2.5	0.0	B3=0F21	0.0	0	0	0	0	FREE

POINT	ALPHA	BETA	CNF3	CM3	CA3	XCPF3	YCPF3	CNF4	CM4	CA4	XCPF4	YCPF4
1	-1.71	0.0	-0.0360	-0.0232	-0.0003	0.6047	0.1579	-0.1131	0.0008	-0.0670	-0.0070	0.5928
2	-0.66	0.0	-0.0345	-0.0247	-0.0056	0.6412	0.1462	-0.0343	0.0186	-0.0771	-0.5430	0.7918
3	0.35	0.0	-0.0334	-0.0212	-0.0071	0.6337	0.2037	0.0532	0.0215	-0.0087	0.4044	-0.1648
4	1.36	0.0	-0.0332	-0.0232	-0.0036	0.5790	0.0902	0.1264	0.0195	0.0331	0.1516	0.2588
5	2.34	0.0	-0.0320	-0.0264	-0.0044	0.5804	0.1059	0.2154	0.0330	0.0577	0.1526	0.2678
6	3.43	0.0	-0.0334	-0.0240	-0.0043	0.6047	0.1005	0.2919	0.0408	0.1055	0.1398	0.3613
7	5.54	0.0	-0.0341	-0.0268	-0.0024	0.6096	0.0588	0.4538	0.0656	0.1547	0.1465	0.3618
8	9.71	0.0	-0.0329	-0.0213	-0.0051	0.6472	0.1566	0.7378	0.0607	0.2479	0.0823	0.3902
9	13.95	0.0	-0.0325	-0.0210	-0.0067	0.6076	0.2052	0.9492	0.0727	0.3960	0.0766	0.4172
10	18.41	0.0	-0.0374	-0.0304	-0.0017	0.6056	0.0461	1.0047	0.0815	0.4160	0.0808	0.4124
11	20.76	0.0	-0.0393	-0.0282	0.0018	0.7386	-0.0374	1.0903	0.0677	0.4563	0.0621	0.4203
12	25.66	0.0	-0.0354	-0.0327	0.0032	0.6734	-0.0905	1.2382	0.0612	0.5163	0.0494	0.4170
13	25.11	0.0	-0.0284	-0.0251	0.0051	0.4045	-0.1765	1.2491	0.0582	0.5418	0.0452	0.4203

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)

PAGE 1 OF 3
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	REID-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2	BA	1.30	2.5	0.0	B3.0F21	0.0	0	0	0	0	FREE

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-1.71	0.0	-0.1335	0.1654	0.0104	-0.0507	-0.0121	0.5049	0.1667	0.3382	-1.3380
2	-0.68	0.0	-0.0438	0.0467	0.0171	-0.0570	-0.0117	0.5045	0.1679	0.3365	-2.1589
3	0.35	0.0	0.0464	0.0169	0.0160	-0.0526	-0.0108	0.5043	0.1676	0.3365	0.1020
4	1.40	0.0	0.1459	-0.1000	0.0146	-0.0582	-0.0105	0.5051	0.1724	0.3327	-0.6806
5	2.43	0.0	0.2513	-0.1496	0.0167	-0.0674	-0.0113	0.5051	0.1766	0.3285	-0.7950
6	3.47	0.0	0.3671	-0.2067	0.0151	-0.0599	-0.0115	0.5043	0.1782	0.3260	-0.8259
7	5.55	0.0	0.5921	-0.3358	0.0104	-0.0368	-0.0106	0.5231	0.1863	0.3368	-0.7994
8	9.75	0.0	1.0201	-0.7279	0.0014	0.0009	-0.0073	0.5492	0.2068	0.3424	-0.7095
9	14.07	0.0	1.4334	-1.2617	-0.0036	0.0386	-0.0042	0.5513	0.2218	0.3295	-0.5284
10	18.55	0.0	2.5327	-0.7152	-0.0026	0.0469	-0.0115	0.5466	0.2345	0.3121	-0.2824
11	20.80	0.0	3.0402	-0.9252	-0.0080	0.0927	0.0006	0.5525	0.2464	0.3061	-0.1380
12	26.80	0.0	4.3726	-0.2976	-0.0297	0.2150	-0.0159	0.5596	0.2797	0.2799	-0.0616
13	29.31	0.0	5.0316	-0.0159	-0.0345	0.2366	-0.0155	0.5757	0.2963	0.2794	-0.0737

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 2 OF 3
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	CONFIG	MACH	RAIL-A	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2	66	1.30	2.5	0.0	53 OF 21	0.0	0	0	0	0	FREE

POINT	ALPHA	BETA	CNF1	CM1	CA1	XCPF1	YCPF1	CNF2	CM2	CA2	XCPF2	YCPF2
1	-1.71	0.0	0.0052	0.0061	0.0239	1.4625	2.9173	-0.0031	-0.0098	-0.0530	0.1229	0.6248
2	-0.68	0.0	0.0093	0.0059	0.0021	0.6252	0.2771	-0.0054	0.0017	-0.0211	-0.3221	3.9167
3	0.35	0.0	0.0142	0.0101	0.0085	0.7113	0.3155	0.0045	0.0125	0.0028	0.1943	0.0378
4	1.40	0.0	0.0049	0.0043	0.0095	0.8566	1.9160	0.1304	0.0209	0.0329	0.1533	0.2409
5	2.43	0.0	0.0026	0.0035	0.0335	1.6215	0.2166	0.2166	0.0231	0.0674	0.1065	0.3110
6	3.47	0.0	0.0067	0.0073	0.0477	3.3067	3.4568	0.2949	0.0353	0.0907	0.1198	0.3074
7	5.55	0.0	-0.0055	0.0061	0.0421	-1.1169	-0.3782	0.4348	0.0372	0.1519	0.0856	0.3473
8	9.75	0.0	-0.0049	0.0087	0.0775	-1.7753	-1.5263	0.7043	0.0509	0.2556	0.0723	0.3629
9	14.07	0.0	-0.0170	0.0109	-0.0065	-0.5071	0.2565	0.9241	0.0567	0.3591	0.0613	0.3886
10	18.55	0.0	-0.0100	0.0153	-0.0119	-0.9220	0.7163	1.1035	0.0741	0.4366	0.0672	0.3958
11	20.80	0.0	-0.0023	0.0091	-0.0201	-0.1215	0.6173	1.1983	0.0622	0.4345	0.0567	0.3956
12	24.80	0.0	-0.0736	0.0085	-0.0279	-0.1145	0.3773	1.2975	0.0463	0.5216	0.0357	0.4028
13	29.31	0.0	-0.1023	-0.0258	-0.0385	0.6543	0.3763	1.3635	0.0444	0.5508	0.0326	0.4040

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	PRESS	RNI	CONE	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2	MA	1.30	2.5	0.0	03.0021	0.0	0	0	0	0	FREE

POINT	ALPHA	BETA	CNF3	CM3	CA3	XCPF3	YCPF3	CNF4	CM4	CA4	XCPF4	YCPF4
1	-1.71	0.0	-0.0154	-0.0247	0.0043	1.3126	-0.2245	-0.1167	0.0019	-0.0074	-0.0160	0.5770
2	-0.45	0.0	-0.0205	-0.0305	0.0066	1.4537	-0.3108	-0.0467	0.0106	-0.0279	-0.2179	0.5739
3	0.35	0.0	-0.0154	-0.0279	0.0055	1.5200	-0.3021	0.0301	0.0153	-0.0058	0.5081	-0.1934
4	1.46	0.0	-0.0144	-0.0284	0.0055	1.4601	-0.3024	0.1123	0.0290	0.0263	0.2584	0.2341
5	2.43	0.0	-0.0211	-0.0265	0.0052	1.3513	-0.2469	0.1840	0.0339	0.0574	0.1848	0.3117
6	4.47	0.0	-0.0140	-0.0257	0.0041	1.7020	-0.2823	0.2657	0.0379	0.0838	0.1425	0.3155
7	5.55	0.0	-0.0202	-0.0208	0.0037	1.3548	-0.1750	0.3476	0.0401	0.1438	0.1008	0.3617
8	9.75	0.0	-0.0326	-0.0330	-0.0004	1.0129	0.0114	0.5667	0.0522	0.2641	0.0782	0.3962
9	14.07	0.0	-0.0336	-0.0276	-0.0047	0.6938	0.1194	0.6814	0.0624	0.3666	0.0708	0.4182
10	18.55	0.0	-0.0407	-0.0331	-0.0062	0.8127	0.1023	1.0490	0.0797	0.4503	0.0760	0.4293
11	20.46	0.0	-0.0437	-0.0335	-0.0091	0.8256	-0.0029	1.1059	0.0819	0.4676	0.0741	0.4489
12	26.60	0.0	-0.0400	-0.0336	-0.0082	0.8457	0.0050	1.2404	0.0522	0.5412	0.0421	0.4363
13	29.31	0.0	-0.0446	-0.0388	-0.0015	0.8217	-0.0339	1.3161	0.0496	0.5699	0.0381	0.4378

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 3
SHEET 1 OF 1
MARTI - MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10**6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2	91	0.60	2.5	0.0	W3-0F36	0.0	0	0	0	0	FREE

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-1.81	0.00	-0.1004	0.0584	0.0051	-0.0038	-0.0025	0.3197	0.1135	0.2062	-0.5163
2	-0.36	0.0	-0.0066	-0.0011	0.0062	-0.0042	-0.0022	0.3182	0.1144	0.2036	11.2061
3	0.63	0.00	-0.0441	-0.0170	0.0083	-0.0065	-0.0030	0.3179	0.1147	0.2032	-1.6863
4	1.66	0.00	0.2021	-0.2943	0.0091	-0.0078	-0.0034	0.3182	0.1153	0.2029	-1.4312
5	2.66	0.00	0.3357	-0.4784	0.0113	-0.0517	-0.0044	0.3184	0.1154	0.2030	-1.4128
6	3.66	0.0	0.4437	-0.7157	0.0094	-0.0043	-0.0045	0.3159	0.1157	0.2003	-1.4796
7	5.56	0.00	0.7356	-1.2061	0.0113	-0.0088	-0.0036	0.3194	0.1230	0.1964	-1.5923
8	9.71	0.0	1.5679	-2.7283	0.0156	-0.0517	-0.0074	0.3369	0.1568	0.1801	-1.7401
9	13.78	0.00	2.5905	-4.4281	0.0247	-0.0878	-0.0114	0.3541	0.1951	0.1590	-1.7737
10	17.87	0.0	3.5470	-6.2542	0.0733	-0.1738	-0.0208	0.3665	0.2265	0.1399	-1.7646
11	19.90	0.0	4.1319	-7.2514	0.0920	-0.2304	-0.0197	0.3737	0.2680	0.1057	-1.7551
12	25.03	0.0	5.8521	-10.1232	0.1337	-0.3879	0.0030	0.3336	0.3092	0.0246	-1.7298
13	27.21	0.00	6.4140	-11.2514	0.1511	-0.4346	0.0021	0.2876	0.2861	-0.0005	-1.7002

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	REY-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2	91	0.80	2.5	0.0	B3BF36	0.0	0	0	0	0	FREE

POINT	ALPHA	BETA	CNF1	CM1	CB1	XCPF1	YCPF1	CNF2	CM2	CB2	XCPF2	YCPF2
1	-1.81	0.0	0.0034	0.0001	-0.0010	0.6282	-0.2615	-0.0025	0.0001	-0.0004	-0.0033	0.3608
2	-0.36	0.0	0.0034	0.0001	-0.0006	0.6282	-0.1436	-0.0033	-0.0002	-0.0011	0.0767	0.3436
3	0.53	0.0	0.0034	0.0000	-0.0036	0.0831	-0.6109	0.0166	-0.0006	0.0055	-0.0367	0.3283
4	1.66	0.0	0.0054	0.0000	-0.0050	0.0830	-0.8447	0.0361	-0.0010	0.0146	-0.0263	0.3832
5	2.66	0.0	0.0026	0.0002	-0.0017	0.0858	-0.6616	0.0642	-0.0013	0.0226	-0.0209	0.3529
6	3.66	0.0	0.0047	0.0001	-0.0005	0.0323	-0.1246	0.0925	-0.0020	0.0337	-0.0212	0.3649
7	5.66	0.0	0.0023	0.0001	-0.0003	0.0562	-0.1527	0.1577	-0.0015	0.0515	-0.0095	0.3262
8	9.71	0.0	0.0016	0.0002	-0.0001	0.1053	-0.0938	0.3029	0.0016	0.0837	0.0053	0.2762
9	13.78	0.0	0.0052	-0.0001	-0.0029	-0.0136	-0.5563	0.4430	0.0058	0.1101	0.0133	0.2498
10	17.87	0.0	0.0096	0.0014	-0.0034	0.1450	-0.3760	0.5666	0.0124	0.1330	0.0219	0.2347
11	19.90	0.0	0.0159	0.0026	-0.0066	0.1550	-0.3779	0.6178	0.0166	0.1406	0.0265	0.2275
12	25.03	0.0	0.0374	0.0020	-0.0066	0.3252	-0.6260	0.7376	0.0252	0.1570	0.0341	0.2129
13	27.21	0.0	0.0001	0.0124	-0.0055	22.0745	-42.3986	0.8032	0.0237	0.1706	0.0295	0.2126

ARNOLD ENGINEERING DEVELOPMENT CENTER (AEDC) PROPULSION WIND TUNNEL FACILITY (PWT) AERODYNAMIC WIND TUNNEL (4T)

PAGE 3 OF 3
SHEET 1 OF 1

PART - MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	REY-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2	91	0.60	2.5	0.0	83-UF36	0.0	0	0	0	0	FREE

POINT	ALPHA	EFF-	CNF3	CM3	CA3	XCPF3	YCPF3	CNF4	CM4	CA4	XCPF4	YCPF4
1	-1.41	0.0	0.0032	-0.0008	0.0033	-0.1215	1.3827	-0.0198	0.0004	-0.0112	-0.0142	0.5660
2	-0.38	0.0	0.0036	-0.0002	0.0032	-0.0630	0.8294	0.0000	-0.0001	-0.0027	-2.8004	-55.0000
3	0.63	0.0	0.0023	-0.0005	0.0051	-0.2844	2.2467	0.0148	-0.0007	0.0059	-0.0353	0.3131
4	1.66	0.0	0.0029	-0.0005	0.0044	-0.1771	1.5382	0.0349	-0.0011	0.0143	-0.0280	0.3671
5	2.69	0.0	0.0035	-0.0001	0.0046	-0.0260	1.0000	0.0633	-0.0018	0.0248	-0.0287	0.3922
6	3.66	0.0	0.0036	-0.0002	0.0050	-0.0495	1.3781	0.0938	-0.0020	0.0354	-0.0215	0.3777
7	5.56	0.0	0.0043	-0.0002	0.0058	-0.0432	1.3756	0.1581	-0.0016	0.0546	-0.0113	0.3452
8	9.71	0.0	0.0043	-0.0001	0.0057	-0.0138	1.5333	0.2905	-0.0000	0.0913	-0.0000	0.3142
9	13.78	0.0	0.0073	-0.0001	0.0059	-0.0102	1.1325	0.4164	0.0056	0.1216	0.0134	0.2924
10	17.87	0.0	0.0116	-0.0003	0.0111	-0.0253	0.9333	0.5217	0.0127	0.1411	0.0243	0.2704
11	19.96	0.0	0.0152	-0.0003	0.0116	-0.0152	0.7209	0.5731	0.0170	0.1498	0.0296	0.2615
12	25.03	0.0	0.0206	-0.0006	0.0136	-0.0304	0.6556	0.7178	0.0224	0.1853	0.0312	0.2581
13	27.21	0.0	0.0244	-0.0010	0.0168	-0.0442	0.5772	0.7868	0.0204	0.2048	0.0260	0.2596

ARNOLD ENGINEERING DEVELOPMENT CENTER (AEDC) PROPULSION WIND TUNNEL FACILITY (PWT) AERODYNAMIC WIND TUNNEL (4T)
PAGE 1 OF 3 MARTIN MISSILE TAIL EFFECTS DATA
SHEET 1 OF 1

TEST	PART	MACH	RN/L=6	PHI	CONE	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2	92	0.65	2.5	0.0	43.01436	0.0	0	0	0	0	FREE

POINT	ALPHA	BETA	CN	CLN	CY	CLN	CLL	CA	CAB	CAF	ACP
1	-1.61	0.0	-0.1260	0.0743	-0.0005	-0.0441	-0.0020	0.3277	0.1164	0.2173	-0.6367
2	-0.39	0.0	-0.0181	-0.0396	0.0007	-0.0477	-0.0026	0.3272	0.1093	0.2179	2.1876
3	0.01	0.0	0.0055	-0.1521	0.0007	-0.0535	-0.0028	0.3251	0.1110	0.2141	-1.7542
4	1.66	0.0	0.1956	-0.2790	0.0134	-0.0561	-0.0040	0.3272	0.1123	0.2149	-1.4282
5	2.69	0.0	0.3262	-0.4572	0.0176	-0.0581	-0.0051	0.3252	0.1107	0.2105	-1.4303
6	3.40	0.0	0.4065	-0.5548	0.0196	-0.0617	-0.0050	0.3293	0.1174	0.2119	-1.4866
7	3.88	0.0	0.4756	-0.6492	0.0198	-0.0616	-0.0062	0.3249	0.1154	0.2091	-1.4911
8	5.71	0.0	0.7041	-1.0264	0.0165	-0.0570	-0.0054	0.3274	0.1250	0.2124	-1.6130
9	9.73	0.0	1.2666	-2.0502	0.0262	-0.0628	-0.0080	0.3474	0.1553	0.1920	-1.7668
10	13.75	0.0	2.5619	-4.4683	0.0259	-0.0760	-0.0093	0.3660	0.1928	0.1732	-1.7939
11	17.86	0.0	3.6978	-6.3837	0.0513	-0.1560	-0.0173	0.3748	0.2294	0.1666	-1.7745
12	19.96	0.0	4.1998	-7.3602	0.0703	-0.1656	-0.0169	0.3751	0.2462	0.1690	-1.7588
13	25.05	0.0	5.2881	-9.1284	0.0504	-0.2123	-0.0072	0.3366	0.3530	0.0307	-1.7166
14	29.07	0.0	6.3885	-10.8203	0.0704	-0.2194	0.0027	0.2978	0.2962	0.0076	-1.6943
15	27.27	0.0	6.5887	-11.1212	0.1304	-0.3491	-0.0038	0.2946	0.2913	0.0032	-1.6524

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)

PAGE 2 OF 3

SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2	92	0.65	2.5	0.0	B3-0F36	0.0	0	0	0	0	FREE

POINT	ALPHA	BETA	CNF1	CM1	CH1	XCPF1	YCPF1	CNF2	CM2	CH2	XCPF2	YCPF2
1	-1.41	0.0	0.0025	-0.0001	0.0003	-0.6036	0.0435	-0.0266	0.0002	-0.0121	-0.0102	0.0925
2	-0.39	0.0	0.0024	-0.0001	0.0008	-0.0372	0.3512	-0.0044	-0.0003	-0.0034	0.0608	0.7770
3	0.61	0.0	0.0035	0.0001	0.0038	0.0201	0.9548	0.0162	-0.0008	0.0028	-0.0577	0.1949
4	1.64	0.0	0.0020	0.0000	0.0030	0.0076	1.1527	0.0359	-0.0011	0.0106	-0.0315	0.2950
5	2.64	0.0	0.0016	0.0005	0.0038	0.0169	2.4025	0.0614	-0.0016	0.0197	-0.0263	0.3183
6	3.40	0.0	0.0020	0.0000	-0.0014	0.0077	-0.5479	0.0046	-0.0021	0.0267	-0.0247	0.3391
7	3.66	0.0	0.0025	-0.0005	0.0001	-0.0150	0.0600	0.0015	-0.0021	0.0306	-0.0228	0.3341
8	5.71	0.0	0.0029	0.0001	-0.0029	0.0345	-0.9729	0.1574	-0.0020	0.0498	-0.0127	0.3154
9	9.73	0.0	0.0114	-0.0006	0.0005	-0.0151	0.5051	0.3026	0.0006	0.0821	0.0021	0.2712
10	13.75	0.0	0.0050	-0.0005	0.0019	-0.1165	0.3273	0.4369	0.0044	0.1085	0.0100	0.2484
11	17.86	0.0	0.0034	-0.0001	0.0062	-0.0141	0.8531	0.5635	0.0058	0.1323	0.0176	0.2347
12	19.94	0.0	0.0196	0.0004	0.0015	0.0525	0.0937	0.6147	0.0141	0.1375	0.0229	0.2237
13	25.05	0.0	0.0007	-0.0021	0.0013	-0.3184	0.1658	0.7327	0.0211	0.1505	0.0287	0.2136
14	29.87	0.0	-0.0006	0.0021	-0.0054	-10.3014	29.2000	0.7737	0.0202	0.1658	0.0261	0.2142
15	27.27	0.0	0.0072	0.0026	-0.0058	0.3546	-0.7452	0.8078	0.0169	0.1732	0.0267	0.2144

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RN/FT=E-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2	92	0.45	2.5	0.0	BS-0P36	0.0	0	0	0	0	FREE

POINT	ALPHA	BETA	CNF3	CM3	CA3	XCPF3	YCPF3	CNF4	CM4	CA4	XCPF4	YCPF4
1	-1.61	0.0	-0.0004	-0.0011	0.0036	1.2348	-3.8750	-0.0200	0.0004	-0.0111	-0.0205	0.5562
2	-0.39	0.0	0.0024	-0.0005	0.0026	-0.2176	1.1046	-0.0001	-0.0001	-0.0030	0.6668	20.0667
3	0.61	0.0	0.0065	-0.0004	0.0042	-1.6543	8.0189	0.0182	-0.0007	0.0058	-0.0411	0.3189
4	1.64	0.0	0.0030	-0.0011	0.0049	-36.33-2	163.9949	0.0383	-0.0011	0.0142	-0.0292	0.3705
5	2.58	0.0	0.0021	-0.0002	0.0025	-0.0655	0.6973	0.0620	-0.0020	0.0243	-0.0321	0.3910
6	3.60	0.0	0.0018	-0.0004	0.0043	-0.0606	2.6220	0.0861	-0.0023	0.0332	-0.0266	0.3851
7	3.66	0.0	0.0024	-0.0005	0.0044	-0.1926	1.7351	0.0942	-0.0023	0.0358	-0.0262	0.3798
8	5.71	0.0	0.0017	-0.0007	0.0054	-0.3557	2.4093	0.1588	-0.0023	0.0562	-0.0144	0.3539
9	9.73	0.0	0.0036	-0.0001	0.0058	-0.0258	1.0773	0.2960	-0.0008	0.0928	-0.0026	0.3134
10	13.75	0.0	0.0007	-0.0005	0.0081	-0.0776	1.2132	0.4142	0.0042	0.1234	0.0101	0.2951
11	17.86	0.0	0.0125	-0.0005	0.0093	-0.0451	0.7360	0.5302	0.0105	0.1433	0.0199	0.2783
12	19.94	0.0	0.0146	-0.0006	0.0104	-0.0419	0.7418	0.5787	0.0145	0.1527	0.0250	0.2639
13	25.95	0.0	0.0178	-0.0006	0.0114	-0.0454	0.6758	0.7243	0.0187	0.1884	0.0258	0.2601
14	26.67	0.0	0.0143	-0.0014	0.0152	-0.0735	0.7869	0.7747	0.0167	0.2025	0.0216	0.2614
15	27.27	0.0	0.0241	-0.0013	0.0135	-0.0540	0.5648	0.7874	0.0186	0.2054	0.0211	0.2608

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(A4)
PAGE 1 OF 3
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	AXIS	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2	93	0.6	2.5	0.0	M3W6F36	0.0	0	0	0	0	FREE

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	ACP
1	-1.01	0.0	-0.1220	0.1761	0.0131	-0.0458	-0.0031	0.3558	0.1090	0.2468	-0.6205
2	-0.36	0.0	-0.0184	-0.0336	0.0124	-0.0449	-0.0039	0.3552	0.1121	0.2431	-0.1762
3	0.63	0.0	0.0485	-0.1411	0.0130	-0.0548	-0.0084	0.3516	0.1140	0.2376	-1.7043
4	1.64	0.0	0.1995	-0.2823	0.0145	-0.0542	-0.0083	0.3516	0.1128	0.2388	-1.4148
5	2.66	0.0	0.3666	-0.5124	0.0160	-0.0553	-0.0082	0.3585	0.1129	0.2456	-1.4527
6	3.65	0.0	0.4774	-0.7141	0.0153	-0.0567	-0.0081	0.3541	0.1156	0.2384	-1.5041
7	5.65	0.0	0.8677	-1.3312	0.0201	-0.0541	-0.0086	0.3567	0.1216	0.2349	-1.6481
8	9.74	0.0	1.6961	-2.9027	0.0267	-0.0632	-0.0103	0.3766	0.1564	0.2202	-1.8141
9	13.76	0.0	2.5632	-4.7186	0.0272	-0.0772	-0.0102	0.3931	0.1902	0.2029	-1.8409
10	17.47	0.0	3.6644	-6.5625	0.0249	-0.1532	-0.0172	0.3948	0.2345	0.1603	-1.7909
11	13.33	0.0	4.2443	-7.6814	0.0213	-0.1622	-0.0143	0.3964	0.2555	0.1439	-1.7702
12	25.13	0.0	6.0197	-9.9955	0.0411	-0.1950	-0.0107	0.3543	0.2901	0.0642	-1.6605
13	27.39	0.0	6.7976	-12.0000	0.0041	-0.1859	-0.0134	0.3173	0.3016	0.0157	-1.5570

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RALU-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2	93	0.62	2.5	0.0	M3=0F36	0.0	0	0	0	0	FREE

POINT	ALPHA	BETA	CNF1	C=1	C=1	XCPF1	YCPF1	CNF2	CN2	C82	XCPF2	YCPF2
1	-1.41	0.0	0.0414	-0.0000	0.0535	-0.0158	1.8211	-0.0255	0.0000	-0.0138	-0.0012	0.5401
2	-0.36	0.0	0.0036	0.0001	0.0032	0.0212	0.8439	-0.0043	-0.0004	-0.0054	0.0903	1.2454
3	0.63	0.0	0.0023	0.0000	0.0034	0.0220	1.0608	0.0155	-0.0006	0.0009	-0.0560	0.0573
4	1.64	0.0	0.0017	0.0	-0.0015	0.0	-1.1170	0.0355	-0.0013	0.0101	-0.0366	0.2861
5	2.68	0.0	0.0006	-0.0001	0.0040	-0.1500	0.6167	0.0680	-0.0026	0.0208	-0.0302	0.3057
6	3.65	0.0	0.0013	-0.0001	0.0012	-0.0519	0.8593	0.0920	-0.0025	0.0295	-0.0269	0.3202
7	5.65	0.0	0.0010	0.0001	0.0030	0.0561	1.6486	0.1549	-0.0027	0.0477	-0.0171	0.2984
8	9.74	0.0	0.0022	0.0002	-0.0002	0.0746	-1.8874	0.3047	-0.0013	0.0829	-0.0041	0.2648
9	13.78	0.0	0.0004	-0.0000	0.0015	-0.0922	0.3053	0.4427	0.0003	0.1105	0.0007	0.2496
10	17.87	0.0	0.0000	0.0000	0.0037	0.0055	0.4055	0.5657	0.0006	0.1338	0.0081	0.2366
11	19.93	0.0	0.0172	-0.0006	0.0057	-0.0587	0.5607	0.6183	0.0067	0.1418	0.0109	0.2296
12	25.13	0.0	-0.0004	-0.0007	0.0015	0.1039	-0.2583	0.7478	0.0118	0.1653	0.0158	0.2211
13	27.34	0.0	-0.0127	0.0008	-0.0015	-0.0731	0.1155	0.0073	0.0137	0.1774	0.0169	0.2197

ARNOLD ENGINEERING DEVELOPMENT CENTER (AEDC) PROPULSION WIND TUNNEL FACILITY (PWT) AERODYNAMIC WIND TUNNEL (4T)
PAGE 3 OF 3
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	REY-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2	93	0.6Z	2.5	0.0	63.0F36	0.0	0	0	0	0	FREE

POINT	ALPHA	BETA	CNF3	CM3	CB3	XCPF3	YCPF3	CNF4	CM4	CB4	XCPF4	YCPF4
1	-1.41	0.0	-0.0002	-0.0002	0.0017	4.5946	-9.7222	-0.0191	0.0004	-0.0106	-0.0204	0.5844
2	-0.36	0.0	0.0016	-0.0005	0.0019	-3.2976	1.0444	0.0006	-0.0002	-0.0019	-0.3493	-3.0317
3	0.63	0.0	-0.0006	-0.0010	0.0032	1.7169	-5.3167	0.0196	-0.0008	0.0068	-0.0419	0.3456
4	1.64	0.0	0.0006	-0.0004	0.0027	-1.2750	4.3175	0.0388	-0.0012	0.0145	-0.0314	0.3737
5	2.68	0.0	0.0029	-0.0006	0.0027	-0.1557	0.9343	0.0649	-0.0022	0.0253	-0.0339	0.3987
6	3.65	0.0	0.0019	-0.0005	0.0024	-0.3211	1.3895	0.0940	-0.0027	0.0364	-0.0291	0.3868
7	5.69	0.0	0.0021	-0.0005	0.0034	-0.2337	1.5841	0.1611	-0.0030	0.0565	-0.0149	0.3605
8	9.74	0.0	0.0032	-0.0003	0.0051	-0.1036	1.6069	0.3006	-0.0027	0.0943	-0.0089	0.3138
9	13.78	0.0	0.0054	-0.0005	0.0073	-0.0906	1.1847	0.4254	0.0001	0.1264	0.0004	0.2971
10	17.87	0.0	0.0103	-0.0005	0.0097	-0.0756	0.8437	0.5303	0.0052	0.1468	0.0098	0.2769
11	19.93	0.0	0.0149	-0.0007	0.0102	-0.0449	0.7256	0.5868	0.0075	0.1595	0.0128	0.2718
12	25.13	0.0	0.0140	-0.0008	0.0106	-0.0460	0.5711	0.7278	0.0094	0.1931	0.0137	0.2654
13	27.39	0.0	0.0243	-0.0011	0.0118	-0.0423	0.6688	0.7860	0.0107	0.2112	0.0136	0.2687

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2	96	0.96	2.5	0.0	03-0P36	0.0	0	0	0	0	FREE

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-1.41	0.0	-0.1243	0.0439	0.0140	-0.0603	-0.0066	0.6155	0.1325	0.2630	-0.8035
2	-0.36	0.0	-0.0174	-0.0304	0.0077	-0.0063	-0.0078	0.6251	0.1282	0.2969	1.7742
3	0.65	0.0	0.0443	-0.1032	0.0145	-0.0066	-0.0091	0.6238	0.1340	0.2897	-1.6633
4	1.64	0.0	0.2061	-0.2495	0.0264	-0.0564	-0.0097	0.6134	0.1303	0.2831	-1.4534
5	2.65	0.0	0.3688	-0.3112	0.0150	-0.0665	-0.0099	0.6162	0.1293	0.2868	-1.4742
6	3.66	0.0	0.4944	-0.3780	0.0127	-0.0606	-0.0102	0.6213	0.1333	0.2880	-1.5081
7	5.65	0.0	0.8277	-1.3455	0.0155	-0.0926	-0.0098	0.6250	0.1435	0.2815	-1.6858
8	9.70	0.0	1.4397	-2.2950	0.0221	-0.0944	-0.0120	0.6421	0.1735	0.2665	-1.8086
9	13.78	0.0	2.0153	-4.7542	0.0275	-0.0713	-0.0157	0.6587	0.2218	0.2369	-1.8197
10	17.87	0.0	3.7776	-6.7341	0.0677	-0.1646	-0.0220	0.6790	0.2528	0.2262	-1.7828
11	19.95	0.0	4.4434	-7.7582	0.0701	-0.1760	-0.0200	0.6778	0.2975	0.1803	-1.7441
12	25.24	0.0	6.3226	-10.0857	0.1092	-0.2671	-0.0124	0.6191	0.3099	0.1092	-1.5953
13	27.09	0.0	7.1705	-10.7536	0.0503	-0.1041	-0.0251	0.3734	0.3185	0.0549	-1.4980

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 2 OF 3
SHEET 1 OF 1
MANTIS MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	REIN=6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2	9A	0.90	2.5	0.0	B3CP36	0.0	0	0	0	0	FREE

POINT	ALPHA	BETA	CNF1	CN1	CH1	XCPF1	YCPF1	CNF2	CH2	CB2	XCPF2	YCPF2
1	-1.01	0.0	0.0000	0.0001	0.0017	0.0351	0.6336	-0.0257	0.0005	-0.0160	-0.0198	0.6224
2	-0.36	0.0	0.0062	0.0003	0.0036	0.0564	0.5627	-0.0034	-0.0002	-0.0076	0.0508	1.9843
3	0.65	0.0	0.0098	0.0003	0.0035	0.0741	0.7986	0.0177	-0.0010	0.0003	-0.0565	0.0198
4	1.64	0.0	0.0025	0.0001	0.0003	0.0437	0.1032	0.0345	-0.0017	0.0094	-0.0427	0.2387
5	2.65	0.0	0.0011	0.0001	0.0001	0.0748	3.7944	0.0673	-0.0026	0.0150	-0.0416	0.2827
6	3.66	0.0	0.0027	0.0001	0.0007	0.0329	1.7044	0.0691	-0.0037	0.0298	-0.0360	0.3038
7	5.69	0.0	0.0011	0.0001	0.0018	0.0748	0.1635	0.1003	-0.0063	0.0479	-0.0260	0.2917
8	9.70	0.0	0.0004	0.0002	-0.0014	0.0605	-2.3293	0.3101	-0.0039	0.0819	-0.0123	0.2641
9	13.76	0.0	0.0035	-0.0003	0.0003	-0.0558	1.2459	0.4489	-0.0030	0.1112	-0.0087	0.2477
10	17.87	0.0	0.0064	0.0010	0.0044	0.1510	0.6918	0.5779	-0.0027	0.1382	-0.0048	0.2395
11	14.95	0.0	0.0036	-0.0002	0.0036	-0.0710	1.0562	0.4358	-0.0029	0.1517	-0.0045	0.2386
12	25.24	0.0	0.0054	-0.0004	0.0032	-0.1073	0.9217	0.7804	-0.0042	0.1800	-0.0002	0.2306
13	27.49	0.0	-0.0019	0.0024	-0.0053	-0.1548	2.3258	0.8339	0.0010	0.1917	0.0012	0.2299

PANTIN MISSILE TAIL EFFECTS DATA

TEST PART MACH RN/L=6 PHI CONE L LEL DEL2 DEL3 DEL4 TRANSITION
2 V4 0.60 2.5 0.0 03-0F36 0.0 0 0 0 0 FREE

POINT	ALPHA	BETA	CPF3	CM3	CN3	XCPF3	YCPF3	CAF4	CM4	CB4	XCPF4	YCPF4
1	-1.81	0.0	-0.[illegible]13	-0.[illegible]14	0.[illegible]25	0.[illegible]75	-1.90[illegible]	-0.01[illegible]	0.0009	-0.0124	-0.0447	0.6357
2	-0.36	0.0	0.[illegible]	-0.[illegible]1[illegible]	0.0031	-3.1004	7.6500	0.0019	0.0001	-0.0035	0.0316	-1.8421
3	0.55	0.0	-0.[illegible]12	-0.[illegible]15	0.0053	1.2522	-3.3006	0.0228	-0.0038	0.0056	-0.0372	0.2666
4	1.64	0.0	0.0013	-0.0019	0.0027	-0.7538	2.0448	0.0022	-0.0017	0.0145	-0.0402	0.3422
5	2.65	0.0	0.[illegible]23	-0.[illegible]29	0.[illegible]2[illegible]	-2.3750	1.2271	0.0087	-0.0030	0.0256	-0.0441	0.3722
6	3.66	0.0	0.[illegible]1[illegible]	-0.[illegible]39	0.[illegible]34	-0.5368	1.9379	0.0990	-0.0039	0.0373	-0.0342	0.3773
7	5.65	0.0	0.[illegible]21	-0.[illegible]5[illegible]	0.[illegible]65	-0.3733	2.1835	0.1662	-0.[illegible]84	0.[illegible]566	-0.[illegible]26[illegible]	0.3409
8	9.70	0.0	0.[illegible]35	-0.[illegible]97	0.[illegible]55	-0.[illegible]735	1.5817	0.3003	-0.0053	0.0935	-0.0175	0.3113
9	13.78	0.0	0.[illegible]54	-0.[illegible]1[illegible]	0.[illegible]7[illegible]	-0.[illegible]1361	1.3379	0.[illegible]292	-0.0031	0.1278	-0.0073	0.2979
10	17.87	0.0	0.[illegible]1[illegible]	-0.[illegible]1[illegible]	0.[illegible]1041	-0.[illegible]712	0.6347	0.5414	-0.0020	0.1520	-0.0037	0.2808
11	19.95	0.0	0.[illegible]11[illegible]	-0.[illegible]1[illegible]	0.[illegible]1[illegible]	-0.[illegible]6[illegible]	0.[illegible]8[illegible]	0.[illegible]018	-0.0021	0.1668	-0.0035	0.2772
12	25.24	0.0	0.[illegible]1[illegible]	-0.[illegible]1[illegible]	0.0107	-0.0522	0.5892	0.7471	-0.0017	0.2051	-0.0023	0.2746
13	27.[illegible]	0.0	0.[illegible]223	-0.[illegible]313	0.[illegible]117	-0.[illegible]65[illegible]	0.5226	0.[illegible]261	-0.0005	0.2296	-0.0006	0.2736

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)

PAGE 1 OF 3

SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RN/L-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2	95	1.10	2.5	0.0	B3WP36	0.0	0	0	0	0	FREE

POINT	ALPHA	BETA	CN	CLN	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-1.01	0.0	-0.1137	0.0491	0.0161	-0.0778	-0.0049	0.5832	0.2157	0.3675	-0.7228
2	-0.01	0.0	-0.0290	-0.0048	0.0154	-0.0787	-0.0043	0.5821	0.2156	0.3664	2.0815
3	0.02	0.0	0.1057	-0.0187	0.0208	-0.0741	-0.0094	0.5816	0.2144	0.3672	-1.7725
4	1.03	0.0	0.2146	-0.0366	0.0181	-0.0771	-0.0112	0.5811	0.2140	0.3671	-1.4782
5	2.08	0.0	0.3526	-0.0515	0.0212	-0.0806	-0.0117	0.5798	0.2152	0.3645	-1.4618
6	3.08	0.0	0.5136	-0.0737	0.0235	-0.0979	-0.0118	0.5785	0.2138	0.3647	-1.5057
7	5.71	0.0	0.9522	-0.1365	0.0266	-0.1016	-0.0133	0.5748	0.2284	0.3584	-1.6833
8	9.74	0.0	1.6824	-0.2279	0.0324	-0.1917	-0.0168	0.5304	0.2731	0.3572	-1.7613
9	13.98	0.0	2.4835	-0.3271	0.0381	-0.2480	-0.0172	0.6452	0.2987	0.3464	-1.7506
10	17.95	0.0	3.2872	-0.4311	0.0450	-0.1503	-0.0192	0.6324	0.2952	0.3373	-1.6744
11	20.05	0.0	3.6850	-0.4834	0.0488	-0.1706	-0.0215	0.6127	0.3009	0.3119	-1.5882
12	25.42	0.0	4.5923	-0.6046	0.1165	-0.2536	-0.0043	0.5808	0.3762	0.2446	-1.3987
13	27.74	0.0	4.9478	-0.6562	0.0855	-0.2279	-0.0295	0.5588	0.3658	0.2131	-1.2979

MARTIN MISSILE TAIL EFFECTS DATA

TEST PART	MACH RNLD-6	PHI	CONF	L	DEL1	DEL2	DEL3	DELA	TRANSITION
2	95 1.10 2.5	0.0	83.0P36	0.0	0	0	0	0	FREE

POINT	ALPHA	BETA	CNF1	CM1	CB1	XCPF1	YCPF1	CNF2	CM2	CB2	XCPF2	YCPF2
1	-1.61	0.0	0.0013	-0.0002	0.0233	-0.1424	2.6130	-0.0262	0.0010	-0.0169	-0.0389	0.6465
2	-0.41	0.0	0.0005	-0.0003	0.0013	-0.5061	2.0484	-0.0045	-0.0001	-0.0078	0.0240	1.7458
3	0.62	0.0	0.0012	-0.0001	0.0118	-0.0942	1.1721	0.0177	-0.0011	-0.0002	-0.0599	-0.8098
4	1.63	0.0	0.0004	-0.0000	0.0000	-0.0116	0.0581	0.0403	-0.0018	0.0004	-0.0452	0.2087
5	2.64	0.0	0.0	0.0	0.0038	0.0	0.0038	0.0671	-0.0029	0.0178	-0.0433	0.2658
6	3.66	0.0	0.0054	0.0001	0.0132	0.0202	0.5945	0.0964	-0.0044	0.0292	-0.0448	0.2964
7	5.71	0.0	0.0016	-0.0002	0.0240	-0.1425	2.7778	0.1056	-0.0061	0.0430	-0.0368	0.2957
8	9.74	0.0	0.0013	-0.0002	0.0114	-0.1029	1.1270	0.3095	-0.0067	0.0825	-0.0216	0.2666
9	13.84	0.0	0.0041	-0.0013	0.0022	-0.2540	0.5388	0.4380	-0.0076	0.1105	-0.0174	0.2523
10	17.95	0.0	0.0029	-0.0011	0.0053	-0.3474	1.4027	0.5504	-0.0076	0.1348	-0.0139	0.2469
11	20.05	0.0	0.0043	-0.0014	-0.0009	-0.0667	-0.2069	0.6055	-0.0087	0.1466	-0.0144	0.2421
12	25.42	0.0	0.0014	-0.0003	0.0044	-0.0203	0.3848	0.7453	-0.0122	0.1793	-0.0164	0.2405
13	27.74	0.0	-0.0005	0.0001	-0.0119	-0.0476	1.4095	0.7980	-0.0134	0.1931	-0.0168	0.2419

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 3 OF 3
SHEET 1 OF 1
MARTI - MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RNLB-6	PHI	CONF	L	LEL1	DEL2	DEL3	DEL4	TRANSITION
2	9A	1.10	2.5	0.0	B3WF3B	0.0	0	0	0	0	FREE

POINT	ALPHA	BETA	CNF3	CF3	CM3	XCPF3	YCPF3	CNF4	CM4	CR4	XCPF4	YCPF4
1	-1.61	0.0	[illegible]	[illegible]	0.0064	-3.3334	7.3704	-0.0192	0.0010	-0.0130	-0.0506	0.4780
2	-0.41	0.0	0.0005	[illegible]	0.0067	-3.8695	9.5000	0.0017	-0.0001	-0.0040	-0.0877	-2.3567
3	0.82	0.0	-0.0017	[illegible]	0.0053	1.3728	-3.5116	0.0229	-0.0012	0.0052	-0.0533	0.2272
4	1.63	0.0	0.0015	-0.0015	0.0064	-1.1937	2.5677	0.0038	-0.0021	0.0138	-0.0484	0.3164
5	2.66	0.0	0.0013	-0.0019	0.0056	-1.5118	3.3488	0.0099	-0.0034	0.0250	-0.0488	0.3579
6	3.66	0.0	0.0017	-0.0019	0.0067	-1.1019	2.4144	0.0084	-0.0047	0.0366	-0.0471	0.3705
7	5.71	0.0	0.0024	-0.0031	0.0057	-0.9351	2.0600	0.1068	-0.0062	0.0570	-0.0376	0.3419
8	9.74	0.0	0.0030	-0.0015	0.0104	-0.4175	1.0120	0.2944	-0.0081	0.0926	-0.0273	0.3102
9	13.84	0.0	0.0070	-0.0017	0.0053	-0.2209	1.2288	0.4205	-0.0077	0.1260	-0.0183	0.2998
10	17.95	0.0	0.0099	-0.0016	0.0104	-0.1340	1.0352	0.5237	-0.0064	0.1463	-0.0123	0.2832
11	20.05	0.0	0.0119	-0.0009	0.0102	-0.2736	0.8535	0.5760	-0.0067	0.1607	-0.0116	0.2790
12	25.42	0.0	0.0104	-0.0007	0.0105	-0.0440	0.6429	0.7170	-0.0117	0.2029	-0.0163	0.2818
13	27.79	0.0	0.0144	-0.0008	0.0107	-0.0422	0.5358	0.7749	-0.0153	0.2210	-0.0197	0.2852

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	PSI	-A	PHI	CONF	L	DEL1	DEL2	DEL3	DELA	TRANSITION
2	44	1.20	2.5		0.0	63636F36	0.0	0	0	0	0	FREE

POINT	ALPHA	BETA	CN	CLN	CY	CLM	CLL	CA	CA4	CAF	ACP
1	-1.96	0.00	-0.1138	-0.0209	-0.0284	0.0312	-0.0058	0.5686	0.1846	0.3790	0.0052
2	-0.01	0.00	-0.0026	-0.1236	-0.0124	0.0241	-0.0089	0.5672	0.1905	0.3747	43.1659
3	0.80	0.00	0.1177	-0.2539	-0.0432	0.0260	-0.0096	0.5661	0.1913	0.3748	-2.1578
4	1.80	0.00	0.2364	-0.3811	-0.0612	0.0219	-0.0107	0.5672	0.1926	0.3748	-1.6397
5	2.80	0.00	0.3645	-0.5553	-0.0805	0.0226	-0.0112	0.5657	0.1936	0.3721	-1.5149
6	3.80	0.00	0.5199	-0.8004	0.0057	0.0146	-0.0117	0.5654	0.1962	0.3692	-1.5406
7	5.78	0.00	0.9471	-1.3893	0.0655	0.0113	-0.0143	0.5756	0.2173	0.3681	-1.5920
8	9.77	0.00	1.8524	-2.7810	0.0134	0.0150	-0.0176	0.6154	0.2427	0.3727	-1.6713
9	13.86	0.00	2.6284	-4.2945	0.0234	-0.0134	-0.0185	0.6229	0.2655	0.3575	-1.6328
10	17.87	0.00	3.4255	-5.7697	0.0401	-0.0451	-0.0200	0.6131	0.2809	0.3321	-1.5078
11	20.21	0.00	4.5553	-6.3772	0.0827	-0.1422	-0.0176	0.5951	0.2833	0.3118	-1.4066
12	25.64	0.00	6.4104	-7.6427	0.1145	-0.2003	-0.0192	0.5724	0.3086	0.2638	-1.2004
13	29.00	0.00	7.5305	-8.5813	0.0728	-0.2431	-0.0208	0.5837	0.3398	0.2439	-1.1386

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 2 OF 3
SHEET 1 OF 1
PART 1, MISSILE TAIL EFFECTS DATA

TEST	PART	MACH NO	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2	98	1.20 2.5	0.0	83.0F36	0.0	0	0	0	0	FREE

POINT	ALPHA	BETA	CNF1	CM1	CA1	XCPF1	YCPF1	CNF2	CM2	CA2	XCPF2	YCPF2
1	-1.42	0.0	-0.0033	0.0012	-0.0029	-0.4226	0.9730	-0.0258	-0.0005	-0.0144	0.0201	0.5573
2	-0.41	0.0	-0.0091	0.0012	0.0006	-0.3747	-0.1424	-0.0052	-0.0014	-0.0064	0.2715	1.2256
3	0.60	0.0	-0.0039	0.0011	0.0003	-0.3157	-0.4726	0.0160	-0.0026	0.0012	-0.1628	0.0782
4	1.64	0.0	-0.0056	0.0007	0.0007	-0.1578	-0.1206	0.0346	-0.0036	0.0009	-0.0973	0.2305
5	2.66	0.0	-0.0054	0.0006	0.0005	-0.1795	-0.1063	0.0650	-0.0048	-0.0146	-0.0765	0.2857
6	3.69	0.0	-0.0045	0.0011	0.0003	-0.2330	-0.0571	0.0948	-0.0062	0.0286	-0.0652	0.3020
7	5.10	0.0	-0.0033	0.0013	-0.0021	-0.3343	0.4882	0.1584	-0.0074	0.0469	-0.0498	0.2963
8	6.77	0.0	-0.0053	0.0014	-0.0005	-0.2007	0.0859	0.2939	-0.0089	0.0740	-0.0302	0.2688
9	13.48	0.0	-0.0267	0.0023	-0.0023	-0.3384	0.9534	0.4113	-0.0096	0.1057	-0.0229	0.2571
10	18.07	0.0	-0.0050	0.0004	-0.0015	-0.0644	0.2719	0.5176	-0.0114	0.1293	-0.0221	0.2498
11	20.21	0.0	-0.0016	0.0009	-0.0020	-0.0701	-0.0108	0.5686	-0.0126	0.1411	-0.0221	0.2482
12	25.69	0.0	-0.0041	0.0013	-0.0013	-0.1056	0.1397	0.7089	-0.0155	0.1746	-0.0218	0.2463
13	28.00	0.0	-0.0252	0.0043	-0.0037	-0.1865	0.3308	0.7635	-0.0182	0.1891	-0.0238	0.2477

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RNLG=E	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2	96	1.20	2.5	0.0	83+0F36	0.0	0	0	0	0	FREE

POINT	ALPHA	BETA	CNF3	CM3	CA3	XCPF3	YCPF3	CNF4	CM4	CA4	XCPF4	YCPF4
1	-1.42	0.0	-0.0045	-0.0100	0.0025	2.1803	-0.5422	-0.0166	-0.0006	-0.0125	0.0368	0.7535
2	-0.41	0.0	-0.0019	-0.0004	0.0011	0.2911	-0.5737	0.0031	-0.0016	-0.0037	-0.4611	-1.2013
3	0.60	0.0	-0.0038	-0.0007	0.0020	0.2125	-0.8076	0.0208	-0.0024	0.0047	-0.0981	0.1897
4	1.64	0.0	-0.0024	-0.0007	0.0025	0.2475	-0.8780	0.0451	-0.0037	0.0140	-0.0813	0.3101
5	2.66	0.0	-0.0013	-0.0006	0.0029	0.3016	-1.5650	0.0692	-0.0050	0.0268	-0.0728	0.3475
6	3.69	0.0	-0.0010	-0.0006	0.0037	0.6343	-3.7835	0.0995	-0.0060	0.0354	-0.0603	0.3555
7	5.70	0.0	-0.0007	-0.0007	0.0043	-1.0162	6.8592	0.1624	-0.0072	0.0552	-0.0446	0.3401
8	9.77	0.0	0.0035	-0.0007	0.0060	-0.2500	1.7143	0.2684	-0.0094	0.0898	-0.0327	0.3115
9	13.86	0.0	0.0053	-0.0007	0.0082	-0.1119	1.2913	0.4008	-0.0100	0.1206	-0.0250	0.3009
10	18.07	0.0	0.0120	-0.0005	0.0111	-0.0434	0.8376	0.4997	-0.0116	0.1455	-0.0232	0.2912
11	20.21	0.0	0.0134	-0.0004	0.0106	-0.0651	0.7949	0.5521	-0.0126	0.1549	-0.0231	0.2895
12	25.49	0.0	0.0215	-0.0007	0.0119	-0.0325	0.5520	0.6877	-0.0158	0.1945	-0.0230	0.2901
13	28.00	0.0	0.0243	-0.0007	0.0125	-0.0250	0.5026	0.7393	-0.0195	0.2161	-0.0264	0.2923

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 3
SHEET 1 OF 1

PANTIN MISSILE TAIL EFFECTS DATA

TEST	PART	*REF	REYNO=6	PHI	CLAF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2	46	1.3W	2.5	0.0	H3=6F36	0.0	0	0	0	0	FREE

POINT	ALPHA	BETA	CM	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-1.99	0.0	-0.1605	0.2002	0.0403	-0.1207	-0.0132	0.5610	0.2013	0.3348	-1.5490
2	-0.37	0.0	-0.0005	0.1477	0.0513	-0.1870	-0.0128	0.5379	0.1965	0.3415	-3.1787
3	0.00	0.0	0.0736	0.1062	0.0494	-0.1866	-0.0145	0.5377	0.1934	0.3442	0.2199
4	1.66	0.0	0.1913	-0.1131	0.0534	-0.1908	-0.0153	0.5393	0.1966	0.3427	-0.5911
5	2.71	0.0	0.2242	-0.2982	0.0515	-0.1873	-0.0164	0.5376	0.1997	0.3380	-0.8966
6	3.71	0.0	0.2751	-0.5258	0.0517	-0.1822	-0.0165	0.5358	0.1999	0.3359	-1.1068
7	5.71	0.0	0.3977	-1.0477	0.0581	-0.1833	-0.0173	0.5486	0.2016	0.3468	-1.3134
8	9.41	0.0	1.0613	-2.0322	0.0627	-0.1961	-0.0196	0.5902	0.2360	0.3543	-1.6919
9	13.96	0.0	2.5900	-3.0905	0.0705	-0.1959	-0.0193	0.5990	0.2669	0.3321	-1.6796
10	18.18	0.0	3.8526	-5.2152	0.0782	-0.1754	-0.0235	0.5661	0.2480	0.3180	-1.3535
11	20.36	0.0	4.6046	-5.8592	0.0856	-0.1775	-0.0277	0.5773	0.2709	0.3064	-1.2715
12	25.44	0.0	6.5817	-7.2541	0.1151	-0.2003	-0.0259	0.5762	0.3084	0.2678	-1.0922
13	28.16	0.0	7.5229	-7.8284	0.1518	-0.1988	-0.0336	0.5918	0.3299	0.2619	-1.0485

PWT1, MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	ALPHA	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2	WB	1.96	2.5	0.0	03-0F36	0.0	0	0	0	0	FREE

POINT	ALPHA	BETA	CNF1	CM1	CH1	XCPF1	YCPF1	CNF2	CM2	CH2	XCPF2	YCPF2
1	-1.44	0.0	[illegible]	-0.0112	0.0077	-0.2883	1.3750	-0.0297	0.0014	-0.0205	-0.0640	0.6980
2	-0.37	0.0	0.0047	-0.0014	0.0064	-0.2710	1.4701	-0.0096	0.0011	-0.0124	-0.1100	1.2822
3	0.66	0.0	0.0030	-0.0011	0.0047	-0.3059	1.7793	-0.0128	0.0002	-0.0051	0.0170	-0.4087
4	1.66	0.0	0.0337	-0.0110	0.0060	-0.2736	1.6107	0.0337	-0.0008	0.0023	-0.0249	0.0676
5	2.71	0.0	0.0024	-0.0013	0.0097	-0.4582	2.2544	0.0612	-0.0016	0.0111	-0.0258	0.1816
6	3.71	0.0	0.0031	-0.0009	0.0056	-0.2731	1.6413	0.0900	-0.0026	0.0220	-0.0316	0.2448
7	5.71	0.0	[illegible]	[illegible]	[illegible]	-0.3371	2.0441	0.1515	-0.0047	0.0398	-0.0309	0.2625
8	9.61	0.0	0.0029	-0.0011	0.0051	-0.2373	2.0688	0.2813	-0.0059	0.0710	-0.0210	0.2523
9	13.34	0.0	[illegible]	[illegible]	[illegible]	-0.1742	0.6598	0.3925	-0.0077	0.0978	-0.0196	0.2470
10	18.16	0.0	-0.0016	-0.0006	0.0041	1.1230	-7.1579	0.4922	-0.0111	0.1262	-0.0226	0.2442
11	20.36	0.0	-0.0057	-0.0002	0.0029	0.9440	-5.5026	0.5480	-0.0127	0.1327	-0.0233	0.2421
12	25.46	0.0	-0.0042	0.0002	0.0013	-0.0177	-0.1481	0.6791	-0.0185	0.1691	-0.0272	0.2490
13	28.16	0.0	[illegible]	[illegible]	-0.0026	-0.2318	0.2557	0.7245	-0.0241	0.1639	-0.0332	0.2538

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 3 OF 3
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2	WP	1.30	2.5	0.0	#3-0F36	0.0	0	0	0	0	FREE

POINT	ALPHA	BETA	CNF3	CM3	CA3	ACNF3	YCPF3	CNF4	CM4	CA4	XCPF4	YCPF4
1	-1.98	0.0	0.0121	-0.0025	0.0148	-1.3523	2.0657	-0.0225	0.0021	-0.0162	-0.0954	0.7166
2	-0.37	0.0	0.0022	-0.0031	0.0047	-1.3512	2.0978	-0.0015	0.0011	-0.0073	-0.7534	4.9888
3	0.66	0.0	0.0021	-0.0133	0.0056	-1.3521	2.0619	-0.0186	0.0001	-0.0017	0.0056	0.0915
4	1.66	0.0	0.0024	-0.0032	0.0042	-1.3546	2.0371	0.0389	-0.0008	0.0046	-0.0216	0.2460
5	2.71	0.0	0.0041	-0.0031	0.0059	-1.3710	1.9532	0.0841	-0.0023	0.0268	-0.0359	0.3249
6	3.71	0.0	0.0037	-0.0052	0.0063	-1.3850	1.8970	0.0932	-0.0034	0.0310	-0.0364	0.3325
7	5.71	0.0	0.0044	-0.0028	0.0053	-1.3968	1.8043	0.1539	-0.0050	0.0445	-0.0329	0.3238
8	9.81	0.0	0.0053	-0.0023	0.0073	-1.3752	1.3614	0.2725	-0.0067	0.0837	-0.0245	0.3072
9	13.98	0.0	0.0055	-0.0018	0.0085	-1.2948	1.5353	0.3769	-0.0078	0.1121	-0.0206	0.2973
10	18.16	0.0	0.0101	-0.0018	0.0103	-1.0970	1.0198	0.4696	-0.0097	0.1360	-0.0206	0.2897
11	20.34	0.0	0.0115	-0.0018	0.0104	-0.9655	0.9041	0.5224	-0.0110	0.1511	-0.0211	0.2893
12	25.84	0.0	0.0175	-0.0005	0.0114	-0.6353	0.6382	0.6499	-0.0148	0.1929	-0.0289	0.2964
13	28.18	0.0	0.0227	-0.0005	0.0114	-0.5357	0.5258	0.6983	-0.0245	0.2116	-0.0358	0.3038

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)

PAGE 1 OF 3
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RALPHA	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2	10%	0.60	2.0	0.0	B3B0F32	0.0	0	0	0	0	FREE

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-1.45	0.0	-0.1423	0.1145	-0.0233	0.0220	-0.0011	0.3087	0.1133	0.1954	-0.8397
2	-0.46	0.0	-0.0253	-0.0170	-0.0264	0.0210	-0.0011	0.3093	0.1131	0.1962	0.6704
3	0.57	0.0	0.0930	-0.1487	-0.0212	0.0229	-0.0007	0.3099	0.1136	0.1962	-1.6568
4	1.57	0.0	0.2014	-0.2823	-0.0198	0.0210	-0.0006	0.3076	0.1136	0.1940	-1.4004
5	2.56	0.0	0.3317	-0.4608	-0.0234	0.0273	-0.0002	0.3077	0.1152	0.1926	-1.3884
6	3.63	0.0	0.4577	-0.6074	-0.0237	0.0315	0.0004	0.3068	0.1174	0.1890	-1.4269
7	5.63	0.0	0.6934	-1.3306	-0.0267	0.0470	0.0013	0.3051	0.1250	0.1800	-1.6223
8	9.70	0.0	1.0610	-3.0467	-0.0193	0.0346	0.0016	0.3151	0.1487	0.1665	-1.8917
9	13.73	0.0	2.0644	-5.0263	-0.0149	0.0427	0.0069	0.3264	0.1783	0.1485	-2.0492
10	17.82	0.0	3.0819	-8.0277	-0.0103	0.0217	0.0098	0.3302	0.2057	0.1244	-2.0895
11	19.86	0.0	4.0287	-9.1957	0.0003	0.0085	0.0113	0.3265	0.2255	0.1010	-2.0764
12	25.03	0.0	6.0650	-12.1660	0.0709	-0.1778	0.0305	0.3279	0.2969	0.0310	-2.0090
13	27.25	0.0	6.9478	-13.4166	0.0545	-0.2152	0.0420	0.3095	0.3279	-0.0184	-1.9689

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 2 OF 3
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RE/FT=E6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2	105	0.60	2.5	0.0	B3=0F32	0.0	0	0	0	0	FREE

POINT	ALPHA	BETA	CNF1	CM1	CB1	XCPF1	YCPF1	CNF2	CM2	CB2	XCPF2	YCPF2
1	-1.97	0.0	0.0035	-0.0041	-0.0045	1.1939	-7.9016	-0.0272	-0.0085	-0.0106	0.3111	0.3882
2	-0.44	0.0	0.0006	0.0001	-0.0053	0.1939	-6.6557	-0.0047	-0.0012	-0.0025	0.2468	0.5253
3	0.57	0.0	-0.0002	-0.0002	-0.0013	1.2981	7.7059	0.0152	0.0054	0.0058	0.3577	0.3808
4	1.57	0.0	-0.0006	-0.0004	-0.0004	0.6796	8.6429	0.0372	0.0120	0.0165	0.3225	0.4442
5	2.59	0.0	0.0000	-0.0001	-0.0014	-5.6066	-28.0000	0.0660	0.0196	0.0252	0.3055	0.3934
6	3.63	0.0	-0.0012	-0.0003	-0.0042	0.6103	7.9060	0.0937	0.0266	0.0348	0.2862	0.3926
7	5.63	0.0	-0.0031	-0.0010	-0.0049	0.2556	3.3128	0.1629	0.0403	0.0692	0.2473	0.4247
8	9.70	0.0	0.0005	-0.0006	-0.0070	-0.4367	-10.3878	0.3307	0.0627	0.1471	0.1896	0.4448
9	13.73	0.0	0.0005	-0.0008	-0.0057	-0.2367	-11.7103	0.5345	0.0735	0.2334	0.1374	0.4367
10	17.82	0.0	0.0004	-0.0010	-0.0034	-1.6441	-6.6102	0.7531	0.0907	0.3301	0.1205	0.4384
11	19.86	0.0	0.0019	-0.0013	-0.0025	-0.7253	-1.3421	0.8436	0.0987	0.3708	0.1170	0.4395
12	25.03	0.0	0.0260	-0.0000	0.0052	-0.0004	0.2297	1.0458	0.1105	0.4473	0.1057	0.4277
13	27.25	0.0	0.0277	-0.0004	0.0119	-0.0335	0.4348	1.1268	0.1150	0.4764	0.1020	0.4228

PARTIN MISSILE TAIL EFFECTS DATA

TEST PART MACH RNLV=6 PHI CONF ... L DEL1 DEL2 DEL3 DEL4 TRANSITION
2 105 0.60 2.5 0.0 03.0F32 0.0 0 0 0 0 FREE

POINT	ALPHA	BETA	CNF3	CM3	CM3	ACNF3	YCPF3	CNF4	CM4	CM4	XCPF4	YCPF4
1	-1.69	0.0	-0.0044	-0.0381	0.0014	0.0163	-1.2853	-0.0253	-0.0087	-0.0163	0.3367	0.5520
2	-0.44	0.0	-0.0025	0.0007	0.0005	-0.2771	-0.1429	-0.0036	-0.0010	-0.0050	0.2798	1.3906
3	0.57	0.0	-0.0024	0.0020	0.0005	-0.3306	-0.1941	0.0181	0.0066	0.0050	0.3653	0.2738
4	1.57	0.0	-0.0020	0.0010	0.0003	-0.5172	-0.1527	0.0386	0.0133	0.0154	0.3441	0.3984
5	2.54	0.0	-0.0027	0.0006	-0.0006	-0.6352	0.2639	0.0632	0.0204	0.0262	0.3228	0.4147
6	3.53	0.0	-0.0024	0.0009	0.0	-0.3659	0.0	0.0913	0.0278	0.0399	0.3051	0.4374
7	5.43	0.0	-0.0033	0.0016	0.0002	-0.3358	-0.0715	0.1584	0.0412	0.0752	0.2581	0.4735
8	9.70	0.0	-0.0054	-0.0002	0.0012	0.0236	-0.1758	0.3148	0.0621	0.1597	0.1974	0.5075
9	13.73	0.0	-0.0086	-0.0000	0.0013	0.0312	-0.1590	0.5041	0.0692	0.2570	0.1359	0.5049
10	17.82	0.0	-0.0135	-0.0001	0.0009	0.0159	-0.1042	0.7101	0.0848	0.3591	0.1194	0.5058
11	19.86	0.0	-0.0097	-0.0005	0.0000	0.0543	-0.0321	0.7966	0.0925	0.4028	0.1162	0.5056
12	25.03	0.0	-0.0079	-0.0002	0.0005	0.0792	-0.3215	0.9992	0.1079	0.4884	0.1080	0.4888
13	27.25	0.0	-0.0058	0.0006	0.0027	-0.0632	-0.6541	1.0774	0.1137	0.5191	0.1055	0.4819

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 3
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RNLD	PHI	CONE	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2	106	0.65	2.5	0.0	03.0F32	0.0	0	0	0	0	FREE

POINT	ALPHA	BETA	CA	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-1.49	0.0	-0.1311	-0.0345	-0.0156	0.0046	-0.0010	0.3177	0.1135	0.2042	-0.4957
2	-0.47	0.0	-0.0152	-0.0037	-0.0215	0.0020	-0.0004	0.3165	0.1141	0.2024	4.1865
3	0.57	0.0	0.0918	-0.1843	-0.0158	0.0160	-0.0006	0.3163	0.1142	0.2021	-2.0073
4	1.57	0.0	0.2229	-0.3510	-0.0164	0.0126	-0.0009	0.3160	0.1132	0.2029	-1.5758
5	2.56	0.0	0.3458	-0.5259	-0.0177	0.0157	-0.0010	0.3146	0.1149	0.1996	-1.5156
6	3.66	0.0	0.4916	-0.7617	-0.0183	0.0215	-0.0012	0.3132	0.1131	0.2001	-1.5507
7	5.07	0.0	0.6834	-1.0672	-0.0193	0.0330	0.0023	0.3126	0.1256	0.1871	-1.7187
8	9.59	0.0	1.2635	-1.9525	-0.0187	0.0347	0.0023	0.3290	0.1465	0.1826	-1.9547
9	13.75	0.0	2.7652	-5.7038	-0.0151	0.0418	0.0083	0.3064	0.1718	0.1746	-2.1869
10	17.83	0.0	3.4305	-5.9473	-0.0080	0.0327	0.0108	0.3439	0.2060	0.1379	-2.1215
11	19.84	0.0	4.5033	-8.5652	0.0063	-0.0119	0.0136	0.3443	0.2206	0.1159	-2.0961
12	25.08	0.0	6.1450	-12.3376	0.0574	-0.1156	0.0286	0.3296	0.2986	0.0310	-2.0074
13	27.29	0.0	6.8927	-13.8652	0.1058	-0.2257	0.0472	0.3040	0.3237	-0.0147	-1.9548

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RN/FT-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2	106	0.65	2.5	0.0	W3+0F32	0.0	0	0	0	0	FREE

POINT	ALPHA	BETA	CNF1	CM1	CA1	XCPF1	YCPF1	CNF2	CM2	CA2	XCPF2	YCPF2
1	-1.64	0.0	0.0025	0.0063	-0.0054	2.1216	-3.6631	-0.0168	-0.0046	-0.0108	0.3511	0.5755
2	-0.47	0.0	0.0	0.0	-0.0009	0.0	-0.0009	0.0029	0.0038	-0.0028	0.2759	-0.9828
3	0.57	0.0	0.0012	-0.0041	-0.0013	-3.0736	-1.0986	0.0266	0.0040	0.0055	0.3232	0.2228
4	1.57	0.0	0.0018	0.0	-0.0105	0.0	-0.5389	0.0472	0.0146	0.0154	0.3093	0.3256
5	2.59	0.0	0.0034	-0.0063	-0.0063	-1.2692	-24.2308	0.0744	0.0229	0.0263	0.2959	0.3534
6	3.60	0.0	-0.0004	-0.0005	-0.0054	0.5667	5.9667	0.1046	0.0290	0.0395	0.2770	0.3771
7	5.67	0.0	-0.0041	-0.0047	-0.0058	1.3385	2.5982	0.1797	0.0437	0.0732	0.2432	0.4076
8	9.64	0.0	0.0015	-0.0056	-0.0067	-1.4355	-21.7047	0.3500	0.0650	0.1524	0.1859	0.4356
9	13.75	0.0	-0.0042	-0.0045	-0.0155	0.8143	7.8040	0.5602	0.0768	0.2414	0.1335	0.4389
10	17.83	0.0	-0.0037	-0.0015	-0.0012	0.4850	0.3406	0.7738	0.0904	0.3366	0.1173	0.4350
11	13.89	0.0	-0.0024	-0.0025	-0.0081	0.8508	2.7627	0.5657	0.0956	0.3749	0.1143	0.4311
12	25.06	0.0	0.0049	-0.0027	-0.0082	-0.2094	-0.0232	1.0589	0.1084	0.4454	0.1024	0.4207
13	27.29	0.0	0.0028	-0.0015	0.0147	-0.0495	0.5025	1.1342	0.1087	0.4742	0.0958	0.4181

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 3 OF 5
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	REIC=6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2	106	0.65	2.5	0.0	M3.0F32	0.0	0	0	0	0	FREE

POINT	ALPHA	BETA	CNF3	CN3	CM3	XCPF3	YCPF3	CNF4	CN4	CM4	XCPF4	YCPF4
1	-1.49	0.0	-0.0055	-0.0018	0.0003	0.0675	-0.0556	-0.0185	-0.0171	-0.0119	0.3432	0.6414
2	-0.47	0.0	-0.0057	-0.0030	0.0004	0.1030	-0.0695	0.0033	0.0008	-0.0030	0.2319	-0.9096
3	0.57	0.0	-0.0061	0.0002	-0.0002	-0.0578	0.0023	0.0246	0.0083	0.0076	0.3411	0.3034
4	1.57	0.0	-0.0057	-0.0006	-0.0009	0.0363	0.0070	0.0464	0.0154	0.0175	0.3313	0.3773
5	2.54	0.0	-0.0059	-0.0042	-0.0002	0.0298	0.0335	0.0711	0.0226	0.0292	0.3184	0.4116
6	3.60	0.0	-0.0060	0.0001	-0.0005	-0.0307	0.1031	0.0997	0.0300	0.0428	0.3006	0.4292
7	5.67	0.0	-0.0062	0.0002	-0.0006	-0.0412	0.0763	0.1716	0.0436	0.0811	0.2556	0.4728
8	9.59	0.0	-0.0070	-0.0007	0.0007	0.0498	-0.0862	0.3337	0.0644	0.1667	0.1930	0.4995
9	13.75	0.0	-0.0084	0.0005	-0.0003	-0.0843	0.0613	0.5362	0.0705	0.2685	0.1315	0.5809
10	17.83	0.0	-0.0075	-0.0001	0.0011	0.0040	-0.1455	0.7378	0.0454	0.3690	0.1158	0.5881
11	19.84	0.0	-0.0064	-0.0020	0.0010	0.0757	-0.1182	0.8281	0.0948	0.4109	0.1135	0.4962
12	25.08	0.0	-0.0064	-0.0002	0.0029	0.0373	-0.4086	1.0194	0.1056	0.4925	0.1036	0.4831
13	27.29	0.0	-0.0057	0.0001	-0.0030	-0.0128	-0.5353	1.0967	0.1097	0.5258	0.1001	0.4794

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	SCALE	RX10=6	FRI	CONF	I	DEL1	DEL2	DEL3	DEL4	TRANSITION
2	107	0.06	2.5	0.0	53.0F32	0.0	0	0	0	0	FREE

POINT	ALPHA	BETA	CN	CLN	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-1.48	0.0	-0.1361	[illegible]	[illegible]	0.0103	-0.0024	0.3432	0.1151	0.2281	-0.6683
2	-0.47	0.0	-0.0204	-0.1507	-0.0161	0.0135	-0.0070	0.3437	0.1121	0.2317	2.0770
3	0.57	0.0	[illegible]	-0.1421	-0.0178	0.0141	-0.0022	0.3465	0.1131	0.2334	-1.9376
4	1.57	0.0	0.2200	-0.1407	-0.0122	0.0082	-0.0072	0.3435	0.1143	0.2292	-1.5488
5	2.06	0.0	0.3544	-0.2263	-0.0128	0.0176	-0.0029	0.3469	0.1133	0.2318	-1.6743
6	3.63	0.0	0.4994	-0.2807	-0.0130	0.0204	-0.0031	0.3421	0.1159	0.2262	-1.5310
7	5.08	0.0	[illegible]	-0.3485	-0.0164	0.0386	-0.0009	0.3376	0.1264	0.2091	-1.7122
8	9.70	0.0	1.0220	-0.4175	-0.0104	0.0155	0.0053	0.3590	0.1471	0.2119	-1.9805
9	13.73	0.0	2.0823	-0.4952	-0.0127	0.0384	0.0067	0.3723	0.1817	0.1956	-2.1230
10	17.83	0.0	4.0747	-0.7044	-0.0023	0.0201	0.0117	0.3701	0.2132	0.1569	-2.1509
11	19.88	0.0	4.7542	-0.7335	0.0011	0.0105	0.0163	0.3633	0.2207	0.1426	-2.1297
12	25.13	0.0	6.0202	-0.7567	0.0036	-0.0767	0.0369	0.3332	0.2816	0.0521	-1.9864
13	27.66	0.0	7.1765	-0.8116	0.0037	-0.1527	0.0618	0.3112	0.3075	0.0037	-1.8967

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 2 OF 3
SHEET 1 OF 1
AERTIV MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RNUM=6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2	107	0.6	2.5	0.0	43.0F32	0.0	0	0	0	0	FREE

POINT	ALPHA	BETA	CNF1	CM1	CB1	XCNF1	YCPF1	CNF2	CM2	CB2	XCPF2	YCPF2
1	-1.48	0.0	-0.0007	-0.0004	-0.0034	0.6005	5.5352	-0.0176	-0.0067	-0.0112	0.3852	0.0635
2	-0.47	0.0	-0.0031	-0.0002	-0.0006	1.3333	5.2000	0.0024	0.0008	-0.0020	0.2585	-0.0686
3	0.57	0.0	0.0033	-0.0003	-0.0045	-5.2000	-92.3999	0.0257	0.0086	0.0053	0.3333	0.2875
4	1.57	0.0	0.0013	-0.0001	-0.0047	-0.1037	-3.4815	0.0484	0.0156	0.0158	0.3225	0.3271
5	2.06	0.0	-0.0003	-0.0009	-0.0007	1.2903	2.3226	0.0755	0.0234	0.0256	0.3092	0.3386
6	3.63	0.0	-0.0019	-0.0007	-0.0039	0.4091	2.2273	0.1063	0.0306	0.0396	0.2874	0.3721
7	5.68	0.0	-0.0029	-0.0008	-0.0067	0.3112	1.6608	0.1626	0.0460	0.0726	0.2522	0.3978
8	9.70	0.0	-0.0017	-0.0015	-0.0056	1.3008	4.0406	0.3620	0.0684	0.1509	0.1890	0.4278
9	13.73	0.0	-0.0006	-0.0009	-0.0067	4.1364	3.4091	0.5756	0.0770	0.2455	0.1338	0.4265
10	17.93	0.0	-0.0015	-0.0016	-0.0007	3.2708	1.3750	0.8047	0.0891	0.3447	0.1108	0.4287
11	19.88	0.0	-0.0024	-0.0025	-0.0052	1.0377	2.5654	0.9096	0.0967	0.3892	0.1063	0.4278
12	25.13	0.0	0.0038	-0.0037	0.0044	-0.4256	0.9837	1.1060	0.1046	0.4627	0.0946	0.4184
13	27.44	0.0	0.0230	-0.0134	0.0245	-0.2205	0.9172	1.1698	0.1017	0.4875	0.0869	0.4167

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	ALPHA	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2	107	0.92	2.5	0.0	63.0F32	0.0	0	0	0	0	FREE

POINT	ALPHA	BETA	CNF3	CM3	CA3	XCPF3	YCPF3	CNF4	CM4	CA4	XCPF4	YCPF4
1	-1.98	0.0	-0.0107	-0.0101	0.0001	1.1341	-0.0145	-0.0144	-0.0076	-0.0113	0.4167	0.4134
2	-0.47	0.0	-0.0038	0.0056	-0.0012	-0.1059	0.3557	0.0035	0.0004	-0.0030	0.1723	-0.8503
3	0.57	0.0	-0.0035	0.0003	-0.0012	-0.0958	0.3246	0.0258	-0.0090	-0.0068	0.3479	0.2642
4	1.57	0.0	-0.0036	0.0005	-0.0008	-0.1627	0.2426	0.0470	0.0162	0.0179	0.3452	0.3808
5	2.56	0.0	-0.0036	0.0003	-0.0104	-0.2815	0.2256	0.0722	0.0241	0.0298	0.3382	0.4138
6	3.53	0.0	-0.0025	0.0006	-0.0014	-0.2647	0.4728	0.1027	0.0322	0.0437	0.3131	0.4252
7	5.58	0.0	-0.0052	-0.0004	-0.0005	-0.0614	0.0942	0.1741	0.0462	0.0628	0.2655	0.4742
8	9.76	0.0	-0.0037	0.0001	-0.0001	-0.0173	0.0230	0.3525	0.0747	0.1740	0.2120	0.4937
9	13.73	0.0	-0.0045	0.0006	-0.0005	-0.0866	0.0706	0.5695	0.0735	0.2708	0.1338	0.4928
10	17.43	0.0	-0.0060	-0.0002	-0.0007	0.0200	0.0938	0.7699	0.0845	0.3799	0.1097	0.4935
11	19.58	0.0	-0.0055	-0.0035	0.0004	0.0625	-0.0466	0.8758	0.0907	0.4270	0.1036	0.4878
12	25.13	0.0	-0.0073	-0.0004	0.0024	0.0558	-0.3224	1.0720	0.0994	0.5098	0.0927	0.4755
13	27.60	0.0	-0.0087	-0.0006	0.0063	0.0075	-0.1206	1.1378	0.0946	0.5419	0.0865	0.4765

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 3
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	REIC-6	PHI	CLMF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2	10R	0.90	2.5	0.0	03.0F32	0.0	0	0	0	0	FREE

POINT	ALPHA	BETA	CN	CLN	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-1.45	0.0	-0.1372	0.0701	-0.0201	0.0151	-0.0036	0.4019	0.1309	0.2709	-0.5114
2	-0.44	0.0	-0.0145	-0.0678	-0.0215	0.0124	-0.0031	0.4024	0.1294	0.2730	4.6637
3	0.58	0.0	0.1035	-0.2143	-0.0167	0.0191	-0.0040	0.3987	0.1252	0.2735	-2.0318
4	1.58	0.0	0.2242	-0.3784	-0.0128	0.0146	-0.0035	0.4023	0.1238	0.2785	-1.6573
5	2.61	0.0	0.3716	-0.5035	0.0101	0.0211	-0.0038	0.4002	0.1276	0.2726	-1.5738
6	3.63	0.0	0.5244	-0.6604	-0.0194	0.0291	-0.0045	0.4043	0.1259	0.2785	-1.6416
7	5.63	0.0	0.8562	-1.0487	-0.0132	0.0234	-0.0037	0.4049	0.1414	0.2635	-1.7400
8	9.49	0.0	1.6477	-3.0755	-0.0178	0.0315	0.0029	0.4351	0.1665	0.2686	-2.0861
9	13.76	0.0	2.9762	-5.4057	-0.0079	-0.0102	0.0145	0.4316	0.1899	0.2417	-2.1722
10	17.87	0.0	4.2477	-9.1984	-0.0138	0.0359	0.0133	0.4432	0.2396	0.2036	-2.1650
11	19.93	0.0	4.9365	-10.4987	-0.0006	0.0245	0.0155	0.4353	0.2811	0.1542	-2.1267
12	25.26	0.0	6.6001	-13.3627	0.0415	-0.0659	0.0305	0.4070	0.3129	0.0941	-1.9406
13	27.55	0.0	7.2114	-14.4284	0.0548	-0.0576	0.0345	0.3787	0.3296	0.0491	-1.8209

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	REL-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2	108	0.60	2.0	0.0	F3.0F32	0.0	0	0	0	0	FREE

POINT	ALPHA	BETA	CNF1	CM1	CB1	XCPF1	YCPF1	CNF2	CM2	CB2	XCPF2	YCPF2
1	-1.99	0.0	-0.0023	-0.0006	-0.0018	0.2173	1.2030	-0.0179	-0.0084	-0.0116	0.3876	0.6458
2	-0.00	0.0	0.0011	-0.0001	-0.0016	-0.0727	-1.4727	0.0037	0.0008	-0.0025	0.2213	-0.6940
3	0.56	0.0	-0.0017	-0.0007	-0.0006	0.4055	0.3294	-0.0260	0.0080	-0.0050	0.3079	0.1038
4	1.56	0.0	-0.0012	-0.0008	-0.0009	0.5259	0.8793	0.0521	0.0157	0.0156	0.3008	0.3008
5	2.61	0.0	-0.0022	-0.0016	-0.0004	0.3453	0.1614	0.0747	0.0243	0.0264	0.2926	0.3313
6	3.63	0.0	-0.0015	-0.0007	-0.0008	0.4933	0.4406	0.1147	0.0370	0.0414	0.2699	0.3613
7	4.63	0.0	-0.0021	-0.0009	-0.0005	0.4084	2.3873	0.1917	0.0662	0.0770	0.2610	0.4017
8	5.65	0.0	0.0003	-0.0010	-0.0024	-2.5000	-0.1875	0.3920	0.0669	0.1662	0.1784	0.4239
9	13.78	0.0	0.0014	-0.0022	0.0042	-1.1778	2.2473	0.8019	0.0767	0.2535	0.1274	0.4212
10	17.87	0.0	-0.0024	-0.0022	-0.0005	0.7751	0.1749	0.6135	0.0405	0.3458	0.0989	0.4250
11	19.93	0.0	-0.0032	-0.0035	-0.0031	0.6182	0.5311	0.5192	0.0837	0.3887	0.0918	0.4229
12	25.26	0.0	0.0134	-0.0024	0.0044	-0.1834	0.3438	1.1724	0.0827	0.4958	0.0706	0.4229
13	27.55	0.0	0.0183	-0.0024	0.0065	-0.2618	0.6554	1.2458	0.0908	0.5242	0.0724	0.4208

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 3 OF 3
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS-DATA

TEST	PART	MACH	REY/FT	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2	10M	0.98	2.5	0.0	33.0F32	0.0	0	0	0	0	FREE

POINT	ALPHA	BETA	CNF3	CM3	CA3	XCPF3	YCPF3	CNF4	CM4	CA4	XCPF4	YCPF4
1	-1.49	0.0	-0.0057	-0.0018	-0.0013	0.1145	0.2629	-0.0173	-0.0074	-0.0114	0.4298	0.6580
2	-0.44	0.0	-0.0032	0.0061	-0.0015	-0.0348	0.5177	0.0058	0.0010	-0.0022	0.1771	-0.3802
3	0.56	0.0	-0.0052	-0.0006	-0.0035	0.0056	0.2019	0.0266	0.0087	0.0074	0.3273	0.2778
4	1.58	0.0	-0.0013	0.0011	-0.0019	-0.0308	1.4769	0.0496	0.0162	0.0169	0.3269	0.3818
5	2.61	0.0	-0.0031	0.0033	-0.0035	-0.0026	0.1696	0.0754	0.0239	0.0308	0.3171	0.4082
6	3.63	0.0	-0.0033	0.0002	-0.0024	-0.0549	0.7256	0.1077	0.0318	0.0459	0.2949	0.4262
7	5.83	0.0	-0.0045	-0.0042	-0.0003	0.0397	0.0662	0.1835	0.0471	0.0850	0.2567	0.4433
8	9.69	0.0	-0.0035	-0.0004	-0.0066	0.0681	0.1109	0.3777	0.0708	0.1840	0.1875	0.4872
9	13.76	0.0	-0.0052	0.0005	-0.0004	-0.1106	0.1012	0.5872	0.0873	0.2673	0.1486	0.4892
10	17.87	0.0	-0.0074	-0.0006	0.0004	0.0605	-0.0538	0.7835	0.0790	0.3784	0.1008	0.4829
11	19.93	0.0	-0.0076	-0.0005	0.0025	0.0626	-0.3272	0.8858	0.0814	0.4260	0.0919	0.4888
12	25.96	0.0	-0.0073	-0.0003	0.0028	0.0477	-0.3793	1.1209	0.0797	0.5375	0.0711	0.4795
13	27.55	0.0	-0.0073	-0.0026	0.0032	0.0233	-0.4362	1.2018	0.0867	0.5726	0.0705	0.4764

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RN/L=6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2	104	1.10	2.5	0.0	63.0F32	0.0	0	0	0	0	FREE

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-1.51	0.0	-0.1559	0.0784	-0.0185	0.0042	-0.0047	0.6006	0.2121	0.3885	-0.5028
2	-0.46	0.0	-0.0297	-0.0467	-0.0183	-0.0070	-0.0054	0.6010	0.2124	0.3882	4.1547
3	0.56	0.0	0.1113	-0.2524	-0.0183	-0.0116	-0.0050	0.5998	0.2127	0.3799	-2.3587
4	1.57	0.0	0.2435	-0.4544	-0.0170	0.0058	-0.0046	0.5978	0.2194	0.3779	-1.8671
5	2.62	0.0	0.3814	-0.6672	-0.0220	0.0295	-0.0048	0.5968	0.2208	0.3702	-1.6969
6	3.62	0.0	0.5556	-0.8520	-0.0187	0.0256	-0.0051	0.5920	0.2208	0.3712	-1.7328
7	5.65	0.0	0.9600	-1.2315	-0.0202	0.0308	-0.0041	0.5965	0.2302	0.3663	-1.8683
8	9.72	0.0	1.8455	-3.0457	-0.0142	0.0210	0.0011	0.6259	0.2563	0.3694	-2.0638
9	13.77	0.0	2.9641	-5.2496	-0.0072	0.0089	0.0076	0.6308	0.2735	0.3523	-2.1088
10	17.90	0.0	4.1901	-6.9021	-0.0222	0.0565	0.0128	0.6367	0.3039	0.3328	-2.0529
11	20.04	0.0	4.9296	-8.0731	-0.0188	0.0486	0.0179	0.6217	0.3130	0.3087	-1.9615
12	25.06	0.0	6.9435	-11.9062	0.0292	-0.0028	0.0239	0.5878	0.3469	0.2429	-1.7147
13	27.87	0.0	7.6001	-12.5481	0.0117	0.0041	0.0152	0.5569	0.3508	0.2063	-1.5862

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 2 OF 3
SHEET 1 OF 1

PARTIAL MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	REX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2	109	1.10	2.5	0.0	63A0F32	0.0	0	0	0	0	FREE

POINT	ALPHA	BETA	CNF1	CM1	CA1	XCPF1	YCPF1	CNF2	CM2	CA2	XCPF2	YCPF2
1	-1.51	0.0	-0.0013	-0.0101	-0.0060	0.8063	14.9175	-0.0169	-0.0009	-0.0113	0.3671	0.5964
2	-0.48	0.0	-0.0005	-0.0003	-0.0029	0.8305	3.4407	0.0032	0.0002	-0.0014	0.0726	-0.4479
3	0.56	0.0	0.0001	-0.0003	-0.0057	-5.7500	-71.0000	0.0245	0.0072	0.0071	0.2533	0.2681
4	1.57	0.0	0.0006	-0.0003	-0.0097	-0.2884	-10.8444	0.0536	0.0140	0.0179	0.2608	0.3348
5	2.60	0.0	-0.0016	0.0001	-0.0067	-0.0687	5.7619	0.0807	0.0214	0.0287	0.2700	0.3560
6	3.62	0.0	-0.0010	0.0001	-0.0094	-0.0673	9.0769	0.1158	0.0284	0.0439	0.2450	0.3789
7	5.65	0.0	-0.0013	0.0000	-0.0103	-0.0230	11.8391	0.1964	0.0406	0.0768	0.2069	0.4011
8	9.72	0.0	-0.0015	-0.0011	-0.0017	0.7366	1.1184	0.3860	0.0596	0.1663	0.1544	0.4309
9	13.77	0.0	-0.0016	-0.0011	-0.0015	-0.5329	-1.4951	0.5913	0.0706	0.2569	0.1196	0.4311
10	17.94	0.0	-0.0015	-0.0014	-0.0059	0.9126	3.9866	0.7802	0.0674	0.3325	0.0864	0.4262
11	20.84	0.0	-0.0010	-0.0019	-0.0043	1.1132	2.7358	0.8671	0.0596	0.3654	0.0801	0.4226
12	25.46	0.0	0.0034	-0.0036	0.0000	-0.9115	0.0128	1.0935	0.0666	0.4596	0.0603	0.4203
13	27.87	0.0	-0.0062	-0.0024	-0.0025	0.8255	0.8331	1.1597	0.0661	0.4853	0.0570	0.4184

MANTIS MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RN/FT=E6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2	109	1.10	2.0	0.0	B3B0F32	0.0	0	0	0	0	FREE

POINT	ALPHA	BETA	CNF3	CMF3	CRF3	ACNF3	YCPF3	CNF4	CMF4	CRF4	XCPF4	YCPF4
1	-1.51	0.0	-0.0064	-0.0181	0.0007	0.2316	-0.1681	-0.0149	-0.0076	-0.0131	0.0203	0.6924
2	-0.48	0.0	-0.0039	-0.0005	0.0004	0.1944	-0.0695	0.0024	0.0003	-0.0039	0.1464	-1.6318
3	0.50	0.0	-0.0042	-0.0032	0.0003	0.1864	-0.2694	0.0281	0.0081	0.0065	0.2874	0.2318
4	1.57	0.0	-0.0048	-0.0056	0.0007	0.1384	-0.0630	0.0527	0.0151	0.0177	0.2866	0.3362
5	2.56	0.0	-0.0058	-0.0087	0.0001	0.1376	-0.0276	0.0784	0.0221	0.0305	0.2800	0.3869
6	3.52	0.0	-0.0059	-0.0111	0.0011	0.1463	-0.1254	0.1112	0.0269	0.0470	0.2598	0.4229
7	5.05	0.0	-0.0062	-0.0153	0.0025	0.1813	-0.1336	0.1897	0.0486	0.0866	0.2159	0.4577
8	6.72	0.0	-0.0063	-0.0215	0.0024	0.1815	-0.2483	0.3736	0.0651	0.1797	0.1609	0.4808
9	13.77	0.0	-0.0110	-0.0369	0.0117	0.1284	-0.2231	0.5713	0.0720	0.2742	0.1261	0.4871
10	17.64	0.0	-0.0074	-0.0305	0.0117	0.0658	-0.2255	0.7541	0.0560	0.3626	0.0876	0.4808
11	20.46	0.0	-0.0064	-0.0311	0.0114	0.1114	-0.1469	0.8374	0.0477	0.4008	0.0806	0.4703
12	25.48	0.0	-0.0114	-0.0514	0.0028	0.0946	-0.2644	1.0509	0.0657	0.4971	0.0625	0.4730
13	27.47	0.0	-0.0111	-0.0503	0.0031	0.0727	-0.2765	1.1267	0.0651	0.5271	0.0581	0.4703

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 3
SHEET 1 OF 1

HANTIV MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RNLM6	PHI	CONF	...	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2	110	1.20	2.5	0.0	53=OF32		0.0	0	0	0	0	FREE

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	ACP
1	-1.51	0.00	-0.1838	0.0384	-0.0356	0.0525	-0.0038	0.5429	0.2033	0.3697	-0.2443
2	-0.49	0.0	-0.0097	-0.1492	-0.0364	0.0956	-0.0050	0.5873	0.1991	0.3881	17.4154
3	0.57	0.00	0.1361	-0.3219	-0.0353	0.0969	-0.0048	0.5897	0.1994	0.3903	-2.0335
4	1.55	0.0	0.2714	-0.2278	-0.0324	0.0923	-0.0054	0.5906	0.2052	0.3854	-1.9447
5	2.52	0.00	0.4142	-0.1614	-0.0330	0.0951	-0.0035	0.5892	0.2057	0.3835	-1.7935
6	3.64	0.0	0.5774	-0.0241	-0.0325	0.1028	-0.0037	0.5872	0.2064	0.3808	-1.7747
7	5.08	0.00	0.7958	0.1709	-0.0301	0.1026	-0.0049	0.5867	0.2073	0.3795	-1.8247
8	9.76	0.0	1.5900	-0.0841	-0.0264	0.0966	0.0006	0.6314	0.2392	0.3922	-1.9699
9	13.96	0.0	2.3298	-0.0087	-0.0157	0.0738	0.0044	0.6290	0.2556	0.3732	-1.9825
10	18.05	0.0	4.0713	-0.0563	-0.0066	0.0578	0.0093	0.6143	0.2721	0.3422	-1.8630
11	20.27	0.0	5.0114	-0.0182	0.0133	0.0145	0.0174	0.6095	0.2773	0.3322	-1.7195
12	25.42	0.0	7.0737	-0.0911	0.0534	-0.0345	0.0224	0.5766	0.3001	0.2765	-1.4696
13	28.12	0.0	8.0121	-0.0356	0.1263	-0.1845	0.0312	0.5630	0.3120	0.2510	-1.3785

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RNX10-6	ZMI	CLMF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2	110	1.20	2.5	0.0	83-0F32	0.0	0	0	0	0	FREE

POINT	ALPHA	BETA	CNF1	CM1	CH1	XCPF1	YCPF1	CNF2	CM2	CH2	XCPF2	YCPF2
1	-1.51	0.0	-0.1565	0.0115	-0.0080	-0.3200	1.7043	-0.0207	-0.0044	-0.0106	0.4302	0.5106
2	-0.49	0.0	-0.0145	0.0013	-0.0042	-0.3257	0.9427	0.0044	-0.0020	-0.0010	-0.4480	-0.3529
3	0.51	0.0	-0.0054	0.0019	-0.0024	-0.2830	1.4820	0.0265	0.0050	0.0077	0.1763	0.2787
4	1.55	0.0	-0.0044	0.0069	-0.0104	-0.1918	2.1224	0.0554	0.0137	0.0182	0.1934	0.3290
5	2.62	0.0	-0.0056	0.0094	-0.0086	-0.1418	1.3629	0.0651	0.0177	0.0296	0.2080	0.3478
6	3.66	0.0	-0.0069	0.0109	-0.0073	-0.1419	1.5156	0.1184	0.0234	0.0448	0.2019	0.3788
7	5.08	0.0	-0.0063	0.0130	-0.0075	-0.1062	1.4121	0.1455	0.0350	0.0766	0.1877	0.4042
8	9.71	0.0	-0.0071	0.0167	-0.0093	-0.1013	1.1666	0.3697	0.0562	0.1568	0.1467	0.4240
9	13.86	0.0	-0.0064	-0.0264	-0.0089	0.1455	1.1522	0.5606	0.0631	0.2382	0.1126	0.4258
10	19.05	0.0	-0.0054	-0.0219	-0.0086	0.3695	1.5576	0.7514	0.0714	0.3195	0.0950	0.4250
11	25.27	0.0	-0.0045	-0.0231	-0.0155	0.3638	0.6479	0.8228	0.0655	0.3468	0.0747	0.4207
12	25.82	0.0	-0.0015	-0.0004	-0.0081	0.2532	5.1519	1.0174	0.0632	0.4271	0.0621	0.4198
13	28.16	0.0	-0.0234	-0.0234	-0.0113	0.1612	0.4721	1.0853	0.0667	0.4567	0.0554	0.4189

ARNOLD ENGINEERING DEVELOPMENT CENTER (AEDC) PROPULSION WIND TUNNEL FACILITY (PWT) AERODYNAMIC WIND TUNNEL (4T)
PAGE 3 OF 3
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RXI*6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2	110	1.20	2.5	0.0	B3A0F32	0.0	0	0	0	0	FREE

POINT	ALPHA	BETA	CNF3	CM3	CH3	XCPF3	YCPF3	CNF4	CM4	CH4	XCPF4	YCPF4
1	-1.51	0.0	-0.0001	-0.0001	0.0003	0.0111	-0.1123	-0.0184	-0.0097	-0.0130	0.5302	0.7102
2	-0.49	0.0	-0.0000	0.0005	0.0003	-0.0725	-0.0423	0.0052	-0.0020	-0.0035	-0.3886	-0.6610
3	0.52	0.0	-0.0006	0.0005	0.0001	-0.0390	-0.0224	0.0291	0.0055	0.0070	0.1474	0.2416
4	1.55	0.0	-0.0006	0.0005	0.0005	-0.0942	-0.0616	0.0541	0.0115	0.0196	0.2119	0.3624
5	2.62	0.0	-0.0043	0.0006	0.0036	-0.0569	-0.0435	0.0822	0.0164	0.0318	0.2239	0.3868
6	3.64	0.0	-0.0045	0.0012	0.0032	-0.2762	-0.0535	0.1144	0.0248	0.0476	0.2165	0.4161
7	5.66	0.0	-0.0072	0.0014	0.0114	-0.0393	-0.2359	0.1670	0.0361	0.0836	0.1932	0.4473
8	9.70	0.0	-0.0072	-0.0003	0.0067	0.0456	-0.3804	0.3595	0.0535	0.1711	0.1487	0.4760
9	13.86	0.0	-0.0046	0.0000	0.0019	-0.1426	-0.4716	0.5466	0.0623	0.2623	0.1139	0.4797
10	18.05	0.0	-0.0061	0.0001	0.0031	-0.0167	-0.5016	0.7296	0.0706	0.3489	0.0968	0.4784
11	20.27	0.0	-0.0051	0.0003	0.0036	-0.0584	-0.6656	0.8027	0.0629	0.3798	0.0783	0.4731
12	25.42	0.0	-0.0071	0.0004	0.0045	-0.0475	-0.6794	0.9884	0.0605	0.4666	0.0612	0.4721
13	29.18	0.0	-0.0065	0.0005	0.0053	-0.1049	-1.1982	1.0636	0.0603	0.4887	0.0578	0.4684

PART - MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RN/L×10⁻⁶	PHI	CONE	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2.	111	1.30	2.5	0.0	B3=0F32	0.0	0	0	0	0	FREE

POINT	ALPHA	BETA	CN	CLN	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-1.49	0.0	-0.1736	0.2224	0.0010	-0.0018	-0.0055	0.5659	0.2041	0.3578	-1.2915
2	-0.46	0.0	-0.0535	0.0684	0.0003	-0.0057	-0.0053	0.5629	0.2073	0.3555	-1.3750
3	0.56	0.0	0.0812	-0.1029	0.0005	-0.0065	-0.0054	0.5625	0.2071	0.3555	-1.1435
4	1.58	0.0	0.2165	-0.2720	0.0007	-0.0041	-0.0031	0.5625	0.2059	0.3567	-1.2583
5	2.59	0.0	0.3455	-0.4381	0.0009	-0.0056	-0.0029	0.5617	0.2064	0.3556	-1.3572
6	3.58	0.0	0.4749	-0.6005	0.0012	-0.0059	-0.0016	0.5607	0.2069	0.3539	-1.4615
7	5.64	0.0	0.7333	-1.0355	0.0017	-0.0026	-0.0015	0.5747	0.2136	0.3611	-1.6259
8	9.78	0.0	1.2963	-3.2551	0.0069	-0.0332	0.0021	0.6057	0.2363	0.3693	-1.8203
9	14.02	0.0	3.6012	-0.5184	0.0136	-0.0313	0.0054	0.6045	0.2442	0.3603	-1.8091
10	14.15	0.0	4.1741	-7.0326	0.0144	-0.0006	0.0110	0.5971	0.2575	0.3396	-1.6660
11	20.36	0.0	6.5042	-7.0603	0.0187	-0.0221	0.0134	0.5962	0.2627	0.3315	-1.5821
12	25.35	0.0	7.0334	-4.5561	0.0378	0.0118	0.0184	0.6022	0.2973	0.3049	-1.3586
13	28.36	0.0	8.0053	-1.3513	0.0533	-0.0279	0.0241	0.6055	0.3296	0.2762	-1.2931

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 2 OF 3 MARTIN MISSILE TAIL EFFECTS DATA
SHEET 1 OF 1

TEST	PART	MACH	RE/FT=6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2	111	1.30	2.5	0.0	B3-6F32	0.0	0	0	0	0	FREE

POINT	ALPHA	BETA	CNF1	CM1	CH1	XCPF1	YCPF1	CNF2	CM2	CH2	XCPF2	YCPF2
1	-1.04	0.0	0.0026	0.0065	-0.0063	0.1670	-2.3969	-0.0225	-0.0050	-0.0125	0.2148	0.5532
2	-0.46	0.0	0.0034	0.0005	-0.0053	0.1345	-1.6140	0.0010	0.0012	-0.0034	1.1923	-3.2885
3	0.56	0.0	0.0027	0.0000	-0.0021	0.0185	-0.7704	0.0243	0.0075	0.0054	0.3101	0.2218
4	1.58	0.0	0.0010	-0.0003	-0.0042	-0.2490	-4.2500	0.0504	0.0142	0.0150	0.2825	0.2981
5	2.60	0.0	0.0016	-0.0065	-0.0016	-1.2927	-3.8049	0.0785	0.0203	0.0262	0.2596	0.3343
6	3.64	0.0	0.0006	-0.0094	-0.0065	-0.5172	-5.2299	0.1118	0.0267	0.0410	0.2390	0.3678
7	5.64	0.0	-0.0015	-0.0104	-0.0044	-0.7747	-3.4547	0.1636	0.0379	0.0715	0.2267	0.3897
8	9.76	0.0	0.0062	-0.0305	-0.0073	-0.2916	-0.9476	0.3521	0.0525	0.1469	0.1491	0.4172
9	14.02	0.0	0.0061	-0.0011	-0.0015	-0.0833	-0.7177	0.5329	0.0597	0.2267	0.1121	0.4217
10	18.18	0.0	0.0029	-0.0015	0.0015	-0.0135	0.6056	0.7045	0.0407	0.2952	0.0862	0.4199
11	20.36	0.0	-0.0031	-0.0021	-0.0051	0.0353	1.0158	0.7866	0.0597	0.3291	0.0759	0.4184
12	25.95	0.0	-0.0039	-0.0012	-0.0073	0.2078	1.2467	0.9415	0.0587	0.3950	0.0623	0.4196
13	26.34	0.0	-0.0038	0.0002	-0.0028	0.0784	0.3263	1.0126	0.0575	0.4238	0.0567	0.4184

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RE/10**6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
2	111	1.36	2.5	0.0	B3W32	0.0	0	0	0	0	FREE

POINT	ALPHA	BETA	CNF3	CM3	CA3	XCPF3	YCPF3	CNF4	CM4	CA4	XCPF4	YCPF4
1	-1.95	0.0	-0.0025	-0.0015	0.0034	0.7163	-1.3651	-0.0231	-0.0061	-0.0161	0.2658	0.6965
2	-0.96	0.0	-0.0010	-0.0012	0.0025	1.2121	-2.5253	0.0007	0.0010	-0.0062	1.3562	-0.5205
3	0.56	0.0	-0.0016	-0.0014	0.0023	0.5261	-1.6803	0.0247	0.0076	0.0039	0.3176	0.1573
4	1.56	0.0	-0.0006	-0.0006	0.0015	2.1053	-7.8421	0.0489	0.0140	0.0156	0.2458	0.3189
5	2.56	0.0	-0.0015	-0.0005	0.0021	0.6173	-2.5556	0.0759	0.0196	0.0286	0.2587	0.3774
6	3.64	0.0	-0.0015	-0.0005	0.0026	0.2967	-1.2947	0.1085	0.0255	0.0438	0.2347	0.4039
7	5.64	0.0	-0.0017	-0.0007	0.0025	0.2580	-0.8799	0.1760	0.1362	0.0742	0.2036	0.4448
8	9.76	0.0	-0.0045	-0.0016	0.0031	0.2161	-0.6916	0.3393	0.0509	0.1593	0.1500	0.4695
9	14.92	0.0	-0.0032	-0.0032	0.0030	0.0363	-0.5843	0.5132	0.0590	0.2430	0.1169	0.4736
10	18.18	0.0	-0.0052	0.0003	0.0027	-0.0535	-0.5150	0.6794	0.0607	0.3200	0.0893	0.4710
11	20.36	0.0	-0.0048	0.0000	0.0042	-0.1735	-0.6891	0.7590	0.0587	0.3564	0.0774	0.4696
12	25.85	0.0	-0.0050	-0.0000	0.0051	0.0040	-1.0159	0.9160	0.0561	0.4315	0.0612	0.4710
13	28.36	0.0	-0.0048	0.0006	0.0053	-0.0437	-1.1509	0.9806	0.0500	0.4556	0.0555	0.4645

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH RX10-6 CONF TRANSITION
2 123 0.80 2.5 F14 FREE

POINT	ALPHA	CNF	CM	CA	XCPF	YCPF
1	-2.03	-0.0465	0.0016	-0.0231	-0.0293	0.4933
2	-1.00	-0.0242	0.0011	-0.0130	-0.0451	0.5373
3	-0.02	-0.0038	-0.0006	-0.0059	0.1463	1.5691
4	1.00	0.0148	-0.0005	0.0060	-0.0312	0.4043
5	2.03	0.0345	0.0005	0.0194	0.0173	0.8573
6	2.98	0.0531	-0.0005	0.0204	-0.0094	0.4964
7	4.03	0.0773	-0.0007	0.0383	-0.0095	0.4959
8	6.06	0.1353	-0.0014	0.0823	-0.0100	0.4603
9	8.06	0.2007	-0.0019	0.0674	-0.0093	0.4353
10	10.05	0.2656	-0.0027	0.1152	-0.0100	0.4298
11	12.04	0.3484	-0.0048	0.1381	-0.0139	0.3965
12	14.08	0.4283	-0.0052	0.1633	-0.0122	0.3814
13	16.09	0.5036	-0.0044	0.1829	-0.0088	0.3630
14	18.11	0.5822	-0.0037	0.2039	-0.0063	0.3503
15	20.17	0.6701	-0.0039	0.2296	-0.0058	0.3430
16	22.15	0.7625	-0.0015	0.2529	-0.0019	0.3317
17	24.16	0.8496	0.0020	0.2765	0.0026	0.3231
18	26.20	0.9384	0.0049	0.2974	0.0052	0.3167
19	27.21	0.9864	0.0050	0.3102	0.0051	0.3145

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH RX10-6 CONF TRANSITION
2 124 0.60 2.5 F14 FREE

POINT	ALPHA	CNF	CM	CM	XCPF	YCPF
1	28.13	1.0478	0.0064	0.3300	0.0061	0.3149
2	29.15	1.0725	0.0049	0.3421	0.0063	0.3132
3	30.12	1.1246	0.0081	0.3494	0.0072	0.3106
4	31.16	1.1552	0.0107	0.3603	0.0088	0.3119
5	32.14	1.1890	0.0126	0.3670	0.0106	0.3108
6	33.19	1.1862	0.0200	0.3596	0.0168	0.3031
7	34.16	1.1988	0.0357	0.3450	0.0311	0.2918
8	36.13	1.0851	0.0317	0.2872	0.0315	0.2857
9	38.15	1.0856	0.0308	0.2778	0.0306	0.2861
10	40.13	0.9548	-0.0006	0.2911	-0.0007	0.3049
11	42.14	0.9832	-0.0028	0.2951	-0.0029	0.3064
12	44.16	0.9844	-0.0045	0.3043	-0.0046	0.3089
13	46.17	1.0311	-0.0066	0.3249	-0.0068	0.3086
14	48.18	1.0107	-0.0096	0.3136	-0.0069	0.3103
15	50.17	1.0264	-0.0120	0.3191	-0.0117	0.3109
16	52.18	1.0341	-0.0141	0.3249	-0.0136	0.3130
17	54.19	1.0492	-0.0164	0.3305	-0.0156	0.3150
18	56.17	1.0629	-0.0194	0.3357	-0.0182	0.3158
19	57.16	1.0821	-0.0202	0.3369	-0.0190	0.3172

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH RX10-6 CONF TRANSITION
2 125 0.80 2.5 F14 FREE

POINT	ALPHA	CNF	CM	CA	XCPF	YCPF
1	58.11	1.0375	-0.0191	0.3305	-0.0184	0.3186
2	59.12	1.0415	-0.0218	0.3324	-0.0209	0.3192
3	60.09	1.0456	-0.0233	0.3342	-0.0223	0.3196
4	61.12	1.0487	-0.0252	0.3376	-0.0241	0.3219
5	62.11	1.0567	-0.0263	0.3401	-0.0268	0.3218
6	63.14	1.0606	-0.0279	0.3416	-0.0282	0.3220
7	64.15	1.0645	-0.0295	0.3450	-0.0299	0.3241
8	66.14	1.0667	-0.0329	0.3488	-0.0308	0.3270
9	68.13	1.0676	-0.0354	0.3516	-0.0331	0.3293
10	70.11	1.0693	-0.0382	0.3537	-0.0358	0.3308
11	72.14	1.0727	-0.0410	0.3560	-0.0382	0.3338
12	74.14	1.0730	-0.0447	0.3641	-0.0413	0.3362
13	76.17	1.0757	-0.0484	0.3672	-0.0446	0.3382
14	78.15	1.0739	-0.0527	0.3724	-0.0482	0.3404
15	80.15	1.1032	-0.0576	0.3780	-0.0522	0.3426
16	82.14	1.1099	-0.0627	0.3815	-0.0565	0.3437
17	84.16	1.1056	-0.0659	0.3850	-0.0596	0.3483
18	86.17	1.0996	-0.0709	0.3944	-0.0645	0.3496
19	87.20	1.0883	-0.0718	0.3824	-0.0659	0.3514

ARNOLD ENGINEERING DEVELOPMENT CENTER (AEDC) PROPULSION WIND TUNNEL FACILITY (PWT) AERODYNAMIC WIND TUNNEL (4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH R/10-6 CONF TRANSITION
2 126 0.60 2.5 F14 FREE

POINT	ALPHA	CNF	CM	CA	XCPF	YCPF
1	90.08	1.0372	-0.0768	0.3678	-0.0741	0.3566
2	91.05	1.0325	-0.0790	0.3674	-0.0766	0.3559
3	92.09	1.0246	-0.0821	0.3658	-0.0802	0.3573
4	93.07	1.0232	-0.0856	0.3657	-0.0836	0.3574
5	94.08	1.0140	-0.0868	0.3674	-0.0856	0.3623
6	96.06	1.0139	-0.0959	0.3669	-0.0945	0.3619
7	98.12	1.0036	-0.1028	0.3671	-0.1024	0.3657
8	100.11	0.9996	-0.1090	0.3666	-0.1090	0.3688
9	102.12	0.9985	-0.1164	0.3669	-0.1165	0.3675
10	104.08	0.9938	-0.1204	0.3681	-0.1211	0.3704
11	106.11	0.9944	-0.1256	0.3662	-0.1263	0.3683
12	108.10	0.9911	-0.1293	0.3669	-0.1305	0.3702
13	110.11	0.9816	-0.1314	0.3649	-0.1339	0.3717
14	112.10	0.9859	-0.1357	0.3649	-0.1372	0.3701
15	114.12	0.9778	-0.1369	0.3609	-0.1400	0.3691
16	116.11	0.9770	-0.1379	0.3636	-0.1411	0.3722
17	117.13	0.9717	-0.1383	0.3581	-0.1424	0.3686

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH REID-6 CONF TRANSITION
2 127 0.60 2.5 F14 FREE

POINT	ALPHA	CNF	CN	C'	XCPF	YCPF
1	118.02	0.9362	-0.1377	0.3526	-0.1460	0.3688
2	119.05	0.9346	-0.1386	0.3504	-0.1452	0.3670
3	120.03	0.9303	-0.1383	0.3479	-0.1456	0.3656
4	121.06	0.9438	-0.1377	0.3455	-0.1459	0.3660
5	122.05	0.9388	-0.1375	0.3431	-0.1464	0.3655
6	123.04	0.9374	-0.1376	0.3393	-0.1467	0.3620
7	124.05	0.9317	-0.1368	0.3396	-0.1468	0.3665
8	126.05	0.9278	-0.1370	0.3352	-0.1476	0.3612
9	128.05	0.9138	-0.1354	0.3309	-0.1482	0.3622
10	130.03	0.9073	-0.1346	0.3273	-0.1483	0.3608
11	132.08	0.9033	-0.1349	0.3249	-0.1493	0.3597
12	134.10	0.8953	-0.1342	0.3232	-0.1499	0.3610
13	136.09	0.8886	-0.1350	0.3212	-0.1503	0.3577
14	138.07	0.8820	-0.1343	0.3201	-0.1505	0.3588
15	140.08	0.8858	-0.1339	0.3190	-0.1512	0.3602
16	142.12	0.8846	-0.1354	0.3169	-0.1531	0.3582
17	144.09	0.8765	-0.1348	0.3146	-0.1579	0.3589
18	146.11	0.8669	-0.1414	0.3102	-0.1643	0.3602
19	147.14	0.8563	-0.1438	0.3111	-0.1683	0.3641

MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART PALM RX16-6 CONF TRANSITION
2 12M 0.60 2.5 F14 FREE

POINT	ALPHA	CNP	CM	CC	XCPF	YCPF
1	168.01	0.8325	-0.1349	0.3019	-0.1640	0.3626
2	169.01	0.8173	-0.1342	0.2982	-0.1703	0.3649
3	150.01	0.7992	-0.1379	0.2911	-0.1726	0.3643
4	151.03	0.7871	-0.1329	0.2789	-0.1733	0.3636
5	152.02	0.7867	-0.1282	0.2870	-0.1740	0.3624
6	153.01	0.7853	-0.1242	0.2554	-0.1761	0.3622
7	154.01	0.6701	-0.1145	0.2453	-0.1789	0.3661
8	156.01	0.8215	-0.1166	0.2272	-0.1876	0.3656
9	158.03	0.5855	-0.1129	0.2126	-0.1997	0.3760
10	160.06	0.5159	-0.1126	0.1949	-0.2187	0.3778
11	162.02	0.4584	-0.1149	0.1826	-0.2456	0.3898
12	164.02	0.4026	-0.1075	0.1643	-0.2469	0.4079
13	166.02	0.3454	-0.1003	0.1462	-0.2901	0.4228
14	168.03	0.2888	-0.0848	0.1221	-0.3074	0.4228
15	170.05	0.2274	-0.0736	0.0969	-0.3231	0.4254
16	172.05	0.1725	-0.0584	0.0736	-0.3379	0.4255
17	174.04	0.1204	-0.0421	0.0497	-0.3494	0.4129
18	176.06	0.0726	-0.0261	0.0295	-0.3601	0.4065
19	177.05	0.0522	-0.0190	0.0212	-0.3641	0.4061

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST	PART	MACH	RX10-6	CONF	TRANSITION
2	129	0.80	2.5	F14	FREE

POINT	ALPHA	CNF	CM	CA	XCPF	YCPF
1	178.01	0.0366	-0.0131	0.0133	-0.3580	0.3630
2	178.99	0.0191	-0.0066	0.0091	-0.3478	0.4785
3	180.00	0.0092	-0.0004	0.0009	-0.0851	0.2033
4	181.00	-0.0061	0.0038	-0.0059	-0.6176	0.9706
5	182.00	-0.0269	0.0117	-0.0122	-0.4330	0.4535
6	183.02	-0.0458	0.0182	-0.0170	-0.3974	0.3718
7	184.04	-0.0686	0.0261	-0.0243	-0.3262	0.4168
8	186.03	-0.1146	0.0413	-0.0487	-0.3618	0.4265

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST	PART	MACH	REY10-6	CONF	TRANSITION
2	130	1.10	2.5	F14	FREE

POINT	ALPHA	CNF	CM	CN	ACPF	YCPF
1	-2.03	-0.0532	0.0037	-0.0218	-0.0704	0.4091
2	-0.99	-0.0266	0.0020	-0.0107	-0.0734	0.3973
3	-0.01	-0.0071	0.0010	-0.0009	-0.1412	0.1299
4	1.03	0.0151	-0.0001	0.0090	-0.0060	0.5928
5	2.04	0.0342	-0.0015	0.0181	-0.0393	0.4617
6	3.02	0.0532	-0.0030	0.0295	-0.0470	0.4673
7	4.02	0.0725	-0.0032	0.0416	-0.0365	0.4750
8	6.06	0.1504	-0.0072	0.0857	-0.0480	0.4356
9	8.05	0.2158	-0.0099	0.0928	-0.0458	0.4308
10	10.09	0.2926	-0.0142	0.1198	-0.0486	0.4096
11	12.14	0.3671	-0.0176	0.1451	-0.0481	0.3953
12	14.09	0.4461	-0.0216	0.1716	-0.0484	0.3848
13	16.19	0.5233	-0.0245	0.1973	-0.0469	0.3770
14	18.12	0.6056	-0.0283	0.2211	-0.0467	0.3650
15	20.20	0.6922	-0.0318	0.2420	-0.0460	0.3496
16	22.17	0.7776	-0.0326	0.2638	-0.0419	0.3393
17	24.24	0.8614	-0.0321	0.2856	-0.0373	0.3313
18	26.23	0.9356	-0.0327	0.3061	-0.0349	0.3284
19	27.26	0.9776	-0.0336	0.3175	-0.0342	0.3250

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH RX10-6 CONF TRANSITION
2 131 1.10 2.5 F14 FREE

POINT	ALPHA	CNF	CM	CY	XCPF	YCPF
1	28.14	1.0115	-0.0362	0.3263	-0.0338	0.3246
2	29.16	1.0491	-0.0369	0.3399	-0.0333	0.3240
3	30.15	1.0833	-0.0355	0.3503	-0.0328	0.3233
4	31.20	1.1226	-0.0365	0.3632	-0.0325	0.3235
5	32.19	1.1539	-0.0375	0.3706	-0.0325	0.3212
6	33.17	1.1864	-0.0378	0.3806	-0.0319	0.3208
7	34.20	1.2203	-0.0386	0.3910	-0.0318	0.3205
8	35.21	1.2489	-0.0388	0.4072	-0.0302	0.3184
9	38.22	1.3262	-0.0360	0.4173	-0.0272	0.3147
10	40.24	1.3137	-0.0190	0.4606	-0.0144	0.3049
11	42.24	1.3194	-0.0080	0.3962	-0.0061	0.3003
12	44.22	1.3346	-0.0027	0.3993	-0.0020	0.2992
13	46.24	1.3527	-0.0036	0.4046	-0.0028	0.3019
14	48.26	1.3595	-0.0268	0.4233	-0.0197	0.3114
15	50.25	1.3682	-0.0361	0.4313	-0.0220	0.3152
16	52.30	1.3774	-0.0362	0.4372	-0.0248	0.3174
17	54.31	1.3897	-0.0371	0.4439	-0.0267	0.3194
18	56.30	1.4011	-0.0372	0.4500	-0.0266	0.3212
19	57.33	1.4086	-0.0390	0.4527	-0.0277	0.3215

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1 MARTIN MISSILE TAIL EFFECTS DATA
SHEET 1 OF 1 SPLITTER PLATE DATA

TEST PART MACH RN/0-6 CONF TRANSITION
2 137 1.10 2.5 F1e FREE

POINT	ALPHA	CNF	CM	CM	XCPF	YCPF
1	58.17	1.3585	-0.0386	0.4347	-0.0284	0.3200
2	59.19	1.3681	-0.0394	0.4388	-0.0288	0.3206
3	60.18	1.3725	-0.0411	0.4407	-0.0299	0.3211
4	61.17	1.3825	-0.0420	0.4466	-0.0304	0.3229
5	62.19	1.3871	-0.0431	0.4502	-0.0310	0.3246
6	63.18	1.3954	-0.0453	0.4519	-0.0325	0.3238
7	64.17	1.4021	-0.0472	0.4564	-0.0337	0.3246
8	66.21	1.4153	-0.0501	0.4620	-0.0354	0.3264
9	68.20	1.4252	-0.0525	0.4703	-0.0369	0.3300
10	70.20	1.4357	-0.0561	0.4780	-0.0391	0.3315
11	72.26	1.4359	-0.0594	0.4795	-0.0414	0.3340
12	74.21	1.4345	-0.0634	0.4822	-0.0441	0.3352
13	76.23	1.4356	-0.0675	0.4868	-0.0469	0.3368
14	78.23	1.4347	-0.0705	0.4847	-0.0491	0.3378
15	80.26	1.4285	-0.0735	0.4838	-0.0516	0.3387
16	82.25	1.4229	-0.0765	0.4853	-0.0538	0.3411
17	84.26	1.4156	-0.0800	0.4853	-0.0565	0.3428
18	86.25	1.4084	-0.0833	0.4856	-0.0591	0.3448
19	87.27	1.4021	-0.0859	0.4834	-0.0612	0.3467

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST	PART	MACH	RE/10**6	CONF	TRANSITION
2	133	1.10	2.5	F14	FREE

POINT	ALPHA	CNF	CM	CA	XCPF	YCPF
1	90.13	1.3776	-0.0939	0.4770	-0.0682	0.3464
2	91.12	1.3776	-0.0977	0.4784	-0.0710	0.3473
3	92.13	1.3768	-0.1000	0.4816	-0.0726	0.3499
4	93.14	1.3795	-0.1045	0.4834	-0.0757	0.3504
5	94.12	1.3784	-0.1093	0.4885	-0.0786	0.3503
6	96.13	1.3782	-0.1177	0.4921	-0.0842	0.3520
7	98.14	1.4086	-0.1264	0.4960	-0.0898	0.3523
8	100.14	1.4121	-0.1330	0.5002	-0.0942	0.3542
9	102.15	1.4146	-0.1395	0.5035	-0.0986	0.3559
10	104.16	1.4136	-0.1443	0.5031	-0.1021	0.3560
11	106.24	1.4097	-0.1481	0.5009	-0.1050	0.3553
12	108.20	1.4081	-0.1512	0.5035	-0.1074	0.3576
13	110.19	1.4095	-0.1556	0.5033	-0.1103	0.3571
14	112.17	1.4076	-0.1583	0.5048	-0.1125	0.3586
15	114.22	1.4051	-0.1625	0.5039	-0.1156	0.3583
16	116.21	1.4086	-0.1656	0.5021	-0.1176	0.3585
17	117.24	1.4057	-0.1663	0.5026	-0.1183	0.3576
18	88.10	1.3836	-0.0862	0.4769	-0.0637	0.3446
19	89.14	1.3802	-0.0909	0.4772	-0.0659	0.3458

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH R$10-6 CONF TRANSITION
2 134 1.10 2.5 F14 FREE

POINT	ALPHA	CNF	CM	CA	CNAPF	YCPF
1	118.06	1.4160	-0.1671	0.5050	-0.1180	0.3566
2	119.07	1.4146	-0.1674	0.5015	-0.1187	0.3545
3	120.07	1.4084	-0.1676	0.4996	-0.1190	0.3546
4	121.10	1.4052	-0.1675	0.4987	-0.1192	0.3549
5	122.07	1.4062	-0.1690	0.4975	-0.1200	0.3534
6	123.06	1.4034	-0.1687	0.4955	-0.1202	0.3531
7	124.06	1.3988	-0.1686	0.4917	-0.1208	0.3521
8	126.12	1.3822	-0.1692	0.4871	-0.1225	0.3524
9	128.10	1.3695	-0.1704	0.4835	-0.1244	0.3531
10	130.10	1.3652	-0.1687	0.4800	-0.1236	0.3516
11	132.16	1.3464	-0.1671	0.4728	-0.1243	0.3517
12	134.14	1.3163	-0.1657	0.4631	-0.1259	0.3518
13	136.11	1.2836	-0.1663	0.4529	-0.1295	0.3527
14	138.10	1.2517	-0.1676	0.4445	-0.1339	0.3551
15	140.15	1.2436	-0.1655	0.4281	-0.1375	0.3557
16	142.13	1.1707	-0.1674	0.4142	-0.1430	0.3538
17	144.13	1.1262	-0.1668	0.4023	-0.1499	0.3572
18	146.16	1.0573	-0.1657	0.3813	-0.1567	0.3607
19	147.16	1.0221	-0.1640	0.3706	-0.1604	0.3626

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH RX10-6 CONF TRANSITION
2 135 1.10 2.5 F14 FREE

POINT	ALPHA	CNF	CM	CA	ΔCPF	YCPF
1	148.02	1.0167	-0.1649	0.3671	-0.1522	0.3611
2	149.01	0.9808	-0.1530	0.3549	-0.1662	0.3618
3	150.02	0.9440	-0.1406	0.3426	-0.1702	0.3629
4	151.00	0.9042	-0.1283	0.3320	-0.1761	0.3652
5	152.02	0.8750	-0.1263	0.3201	-0.1787	0.3658
6	153.04	0.8374	-0.1536	0.3079	-0.1835	0.3677
7	154.01	0.8043	-0.1515	0.2975	-0.1886	0.3699
8	156.01	0.7435	-0.1655	0.2934	-0.2168	0.3843
9	158.01	0.6918	-0.1577	0.2866	-0.2279	0.3854
10	160.03	0.6153	-0.1477	0.2360	-0.2400	0.3836
11	162.04	0.5380	-0.1358	0.2079	-0.2523	0.3864
12	164.02	0.4669	-0.1238	0.1790	-0.2651	0.3833
13	166.06	0.3951	-0.1105	0.1509	-0.2747	0.3819
14	168.05	0.3224	-0.0947	0.1227	-0.2937	0.3805
15	170.04	0.2542	-0.0804	0.0947	-0.3101	0.3655
16	172.06	0.1964	-0.0640	0.0730	-0.3258	0.3716
17	174.10	0.1382	-0.0468	0.0470	-0.3387	0.3397
18	176.10	0.0891	-0.0307	0.0253	-0.3450	0.2840
19	177.10	0.0656	-0.0227	0.0136	-0.3467	0.2074

MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH RNLU=6 CONF TRANSITION
2 137 1.30 2.5 F14 FREE

POINT	ALPHA	CNF	CM	CN	XCPF	YCPF
1	-2.01	-0.0326	0.0003	-0.0260	-0.0078	0.9168
2	-1.01	-0.0102	-0.0006	-0.0127	0.0601	1.2522
3	-0.01	0.0121	-0.0018	-0.0040	-0.1392	-0.3171
4	1.01	0.0351	-0.0027	0.0059	-0.0778	0.1694
5	2.02	0.0581	-0.0050	0.0157	-0.0915	0.2412
6	3.03	0.0806	-0.0061	0.0284	-0.0685	0.3201
7	4.05	0.1173	-0.0084	0.0407	-0.0683	0.3871
8	6.04	0.1736	-0.0099	0.0565	-0.0574	0.3844
9	8.06	0.2304	-0.0133	0.0822	-0.0557	0.3858
10	10.08	0.2895	-0.0167	0.1152	-0.0538	0.3723
11	12.13	0.3433	-0.0200	0.1381	-0.0523	0.3602
12	14.13	0.4524	-0.0217	0.1613	-0.0480	0.3561
13	16.16	0.5268	-0.0256	0.1914	-0.0485	0.3431
14	18.17	0.6018	-0.0280	0.2009	-0.0465	0.3337
15	20.19	0.6821	-0.0309	0.2224	-0.0453	0.3260
16	22.22	0.7583	-0.0310	0.2432	-0.0409	0.3207
17	24.23	0.8356	-0.0317	0.2645	-0.0380	0.3167
18	26.28	0.9195	-0.0341	0.2847	-0.0375	0.3130
19	27.30	0.9608	-0.0347	0.2957	-0.0368	0.3130

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST	PART	MACH	PX10-6	CONF	TRANSITION
2	13A	1.30	2.5	F14	FREE

POINT	ALPHA	CNF	CM	CA	XCPF	YCPF
1	28.16	0.9713	-0.0369	0.3034	-0.0379	0.3123
2	29.15	1.0046	-0.0375	0.3138	-0.0373	0.3124
3	30.17	1.0370	-0.0376	0.3242	-0.0363	0.3126
4	31.18	1.0716	-0.0369	0.3328	-0.0363	0.3106
5	32.17	1.1013	-0.0341	0.3425	-0.0355	0.3110
6	33.18	1.1256	-0.0343	0.3528	-0.0340	0.3134
7	34.20	1.1611	-0.0347	0.3612	-0.0342	0.3111
8	35.23	1.2161	-0.0343	0.3772	-0.0323	0.3102
9	36.24	1.2617	-0.0381	0.3913	-0.0302	0.3102
10	40.24	1.2820	-0.0315	0.3952	-0.0246	0.3083
11	42.24	1.2984	-0.0264	0.4003	-0.0204	0.3082
12	44.26	1.3252	-0.0261	0.4108	-0.0212	0.3100
13	46.29	1.3391	-0.0245	0.4153	-0.0221	0.3124
14	48.30	1.3481	-0.0308	0.4241	-0.0229	0.3146
15	50.29	1.3564	-0.0364	0.4294	-0.0268	0.3164
16	52.32	1.3007	-0.0436	0.4365	-0.0321	0.3208
17	54.34	1.3787	-0.0474	0.4439	-0.0344	0.3220
18	56.35	1.3975	-0.0560	0.4518	-0.0358	0.3233
19	57.35	1.4049	-0.0580	0.4560	-0.0356	0.3246

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH RX10-6 CONF TRANSITION
2 139 1.30 2.5 F14 FREE

POINT	ALPHA	CNF	CM	CN	XCPF	YCPF
1	58.16	1.3755	-0.0645	0.4581	-0.0469	0.3302
2	59.16	1.3828	-0.0623	0.4582	-0.0451	0.3314
3	60.17	1.3873	-0.0609	0.4601	-0.0436	0.3316
4	61.19	1.3913	-0.0610	0.4605	-0.0438	0.3318
5	62.21	1.3960	-0.0621	0.4641	-0.0445	0.3324
6	63.20	1.4079	-0.0659	0.4666	-0.0468	0.3314
7	64.22	1.4226	-0.0675	0.4717	-0.0474	0.3316
8	66.23	1.4474	-0.0651	0.4798	-0.0450	0.3315
9	68.21	1.4625	-0.0634	0.4842	-0.0437	0.3311
10	70.26	1.4706	-0.0674	0.4876	-0.0458	0.3316
11	72.25	1.4812	-0.0691	0.4926	-0.0466	0.3325
12	74.26	1.4874	-0.0699	0.4954	-0.0470	0.3333
13	76.27	1.4893	-0.0723	0.4985	-0.0484	0.3354
14	78.25	1.4883	-0.0733	0.5002	-0.0493	0.3361
15	80.28	1.4923	-0.0785	0.5025	-0.0526	0.3367
16	82.31	1.4916	-0.0814	0.5062	-0.0546	0.3393
17	84.28	1.4936	-0.0858	0.5081	-0.0575	0.3388
18	86.30	1.4976	-0.0897	0.5094	-0.0599	0.3401
19	87.32	1.4934	-0.0903	0.5099	-0.0605	0.3413

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST	PART	MACH	PX10-6	CONF	TRANSITION
2	140	1.30	2.5	F14	FREE

POINT	ALPHA	CNF	CM	CA	XCPF	YCPF
1	90.16	1.4085	-0.0434	0.5055	-0.0636	0.3662
2	91.15	1.4068	-0.0651	0.5050	-0.0651	0.3657
3	92.16	1.4015	-0.0991	0.5051	-0.0678	0.3656
4	93.16	1.4027	-0.1035	0.5062	-0.0707	0.3674
5	94.16	1.4031	-0.1062	0.5107	-0.0726	0.3698
6	96.16	1.4057	-0.1110	0.5104	-0.0761	0.3699
7	98.16	1.4044	-0.1165	0.5095	-0.0806	0.3527
8	100.16	1.4328	-0.1258	0.5178	-0.0878	0.3544
9	102.17	1.4346	-0.1357	0.5132	-0.0946	0.3577
10	104.16	1.4367	-0.1410	0.5165	-0.0980	0.3598
11	106.20	1.4333	-0.1465	0.5157	-0.1022	0.3598
12	108.21	1.4318	-0.1529	0.5168	-0.1068	0.3618
13	110.20	1.4242	-0.1576	0.5176	-0.1103	0.3622
14	112.24	1.4275	-0.1606	0.5156	-0.1125	0.3612
15	114.22	1.4266	-0.1636	0.5172	-0.1148	0.3625
16	116.24	1.4210	-0.1665	0.5151	-0.1171	0.3625
17	117.24	1.4190	-0.1687	0.5134	-0.1189	0.3618

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH RE10-6 CONE TRANSITION
2 101 1.30 2.5 F14 FREE

POINT	ALPHA	CNF	CM	CH	XCPF	YCPF
1	118.08	1.4073	-0.1664	0.5049	-0.1183	0.3616
2	119.09	1.4006	-0.1673	0.5072	-0.1195	0.3621
3	120.10	1.3952	-0.1686	0.5036	-0.1208	0.3610
4	121.10	1.3687	-0.1689	0.5009	-0.1216	0.3607
5	122.10	1.3786	-0.1684	0.4990	-0.1222	0.3619
6	123.08	1.3730	-0.1696	0.4967	-0.1236	0.3617
7	124.10	1.3650	-0.1701	0.4935	-0.1246	0.3615
8	125.12	1.3496	-0.1696	0.4872	-0.1257	0.3610
9	126.13	1.3327	-0.1693	0.4797	-0.1270	0.3599
10	130.10	1.3122	-0.1677	0.4715	-0.1278	0.3593
11	132.11	1.2907	-0.1660	0.4623	-0.1286	0.3582
12	134.14	1.2676	-0.1630	0.4539	-0.1286	0.3581
13	136.14	1.2336	-0.1628	0.4407	-0.1320	0.3573
14	138.15	1.2017	-0.1615	0.4311	-0.1344	0.3588
15	140.17	1.1691	-0.1605	0.4185	-0.1373	0.3580
16	142.16	1.1223	-0.1576	0.4047	-0.1404	0.3606
17	144.15	1.0766	-0.1567	0.3873	-0.1455	0.3598
18	146.18	1.0217	-0.1545	0.3678	-0.1512	0.3599
19	147.18	0.9955	-0.1538	0.3580	-0.1545	0.3597

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH RN10-6 CONF TRANSITION
2 142 1.30 2.5 F14 FREE

POINT	ALPHA	CNF	CM	CA	XCPF	YCPF
1	148.01	1.0282	-0.1709	0.3705	-0.1675	0.3631
2	149.03	0.9844	-0.1678	0.3580	-0.1698	0.3622
3	150.03	0.9568	-0.1659	0.3456	-0.1733	0.3612
4	151.01	0.9229	-0.1628	0.3329	-0.1763	0.3607
5	152.05	0.8856	-0.1598	0.3218	-0.1805	0.3625
6	153.03	0.8523	-0.1574	0.3079	-0.1847	0.3613
7	154.03	0.8133	-0.1531	0.2963	-0.1882	0.3644
8	156.02	0.7440	-0.1469	0.2722	-0.1974	0.3658
9	158.02	0.6690	-0.1384	0.2452	-0.2068	0.3665
10	160.04	0.5992	-0.1308	0.2140	-0.2183	0.3571
11	162.04	0.5247	-0.1205	0.1889	-0.2296	0.3681
12	164.08	0.4564	-0.1102	0.1614	-0.2425	0.3553
13	166.09	0.3870	-0.0988	0.1389	-0.2552	0.3598
14	168.10	0.3242	-0.0869	0.1131	-0.2661	0.3489
15	170.06	0.2615	-0.0736	0.0895	-0.2808	0.3617
16	172.08	0.2036	-0.0599	0.0656	-0.2940	0.3219
17	174.10	0.1463	-0.0446	0.0428	-0.3007	0.2883
18	176.14	0.0975	-0.0291	0.0209	-0.2990	0.2133
19	177.15	0.0737	-0.0212	0.0143	-0.2873	0.1968

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST	PART	MACH	RN/FT-6	CONF	TRANSITION
2	143	1.30	2.5	F14	FREE

POINT	ALPHA	CNF	CM	C_{M_α}	XCPF	YCPF
1	178.02	0.0027	-0.0175	0.0115	-0.2748	0.1829
2	179.00	0.0071	-0.0118	0.0031	-0.2514	0.0668
3	180.04	0.0260	-0.0036	-0.0071	-0.1486	-0.2960
4	180.99	0.0060	0.0020	-0.0150	0.3278	-2.4818
5	182.01	-0.0133	0.0095	-0.0219	-0.7369	1.0966
6	183.02	-0.0330	0.0155	-0.0296	-0.5005	0.8986
7	184.02	-0.0551	0.0238	-0.0394	-0.4329	0.7153
8	186.03	-0.1052	0.0393	-0.0549	-0.3734	0.5689
9	188.05	-0.1584	0.0543	-0.0705	-0.3365	0.5080
10	190.07	-0.2152	0.0671	-0.1024	-0.3118	0.4778
11	192.06	-0.2758	0.0794	-0.1279	-0.2880	0.4637
12	194.04	-0.3421	0.0921	-0.1520	-0.2694	0.4464
13	198.08	-0.4817	0.1150	-0.2096	-0.2388	0.4367
14	200.09	-0.5564	0.1247	-0.2357	-0.2250	0.4251
15	202.11	-0.6282	0.1328	-0.2532	-0.2121	0.4208
16	204.09	-0.7005	0.1420	-0.2694	-0.2028	0.4123
17	206.14	-0.7736	0.1489	-0.3185	-0.1927	0.4120
18	207.12	-0.8081	0.1519	-0.3295	-0.1880	0.4081

ARNOLD ENGINEERING DEVELOPMENT CENTER (AEDC) PROPULSION WIND TUNNEL FACILITY (PWT) AERODYNAMIC WIND TUNNEL (4T)

PAGE 1 OF 1

SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

SPLITTER PLATE DATA

TEST PART MACH RX10-6 CONF TRANSITION

4 144 1.20 2.5 F14 FREE

POINT	ALPHA	CNF	CM	CC	XCPF	YCPF
1	-2.02	-0.0236	-0.0104	-0.0214	0.0399	0.9295
2	-1.01	-0.0019	-0.0018	-0.0117	0.9472	6.1737
3	-0.00	0.0218	-0.0033	-0.0009	-0.1504	-0.0414
4	1.03	0.0466	-0.0052	0.0067	-0.1105	0.1628
5	2.02	0.0703	-0.0060	0.0106	-0.0859	0.2363
6	3.01	0.0951	-0.0073	0.0294	-0.0765	0.3096
7	4.05	0.1226	-0.0084	0.0419	-0.0700	0.3616
8	6.03	0.1816	-0.0113	0.0668	-0.0520	0.3673
9	8.08	0.2511	-0.0149	0.0908	-0.0594	0.3615
10	10.08	0.3196	-0.0170	0.1176	-0.0533	0.3681
11	12.11	0.3973	-0.0213	0.1386	-0.0536	0.3689
12	14.14	0.4709	-0.0234	0.1637	-0.0497	0.3677
13	16.13	0.5456	-0.0262	0.1877	-0.0461	0.3662
14	18.19	0.6237	-0.0293	0.2101	-0.0471	0.3368
15	20.20	0.7048	-0.0329	0.2327	-0.0464	0.3278
16	22.23	0.7956	-0.0346	0.2565	-0.0435	0.3199
17	24.22	0.8697	-0.0348	0.2739	-0.0400	0.3149
18	26.26	0.9436	-0.0355	0.2947	-0.0377	0.3123
19	27.28	0.9831	-0.0373	0.3050	-0.0379	0.3103

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH RN/Q=6 CONF TRANSITION
2 145 1.020 2.5 F14 FREE

POINT	ALPHA	CNF	Cm	Co	XCPF	YCPF
1	28.14	1.0003	-0.0375	0.3124	-0.0375	0.3123
2	29.18	1.0355	-0.0390	0.3208	-0.0376	0.3098
3	30.15	1.0678	-0.0394	0.3304	-0.0369	0.3094
4	31.16	1.0996	-0.0399	0.3427	-0.0363	0.3113
5	32.17	1.1307	-0.0403	0.3511	-0.0356	0.3105
6	33.16	1.1617	-0.0410	0.3608	-0.0353	0.3106
7	34.18	1.1922	-0.0415	0.3703	-0.0348	0.3106
8	36.22	1.2467	-0.0423	0.3868	-0.0339	0.3098
9	38.21	1.2934	-0.0420	0.4011	-0.0324	0.3108
10	40.26	1.3130	-0.0343	0.4021	-0.0261	0.3063
11	42.24	1.3281	-0.0280	0.4025	-0.0211	0.3031
12	44.25	1.3438	-0.0233	0.4048	-0.0174	0.3012
13	46.29	1.3645	-0.0226	0.4149	-0.0166	0.3031
14	48.29	1.3835	-0.0259	0.4226	-0.0187	0.3054
15	50.31	1.3917	-0.0329	0.4259	-0.0236	0.3132
16	52.28	1.3801	-0.0461	0.4270	-0.0334	0.3166
17	54.32	1.3797	-0.0483	0.4287	-0.0365	0.3206
18	56.31	1.4167	-0.0511	0.4548	-0.0361	0.3210
19	57.33	1.4254	-0.0522	0.4594	-0.0366	0.3222

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH RX10-6 CONF TRANSITION
2 146 1.20 2.5 F14 FREE

POINT	ALPHA	CNF	CM	CA	XCPF	YCPF
1	58.19	1.4173	-0.0539	0.4585	-0.0380	0.3235
2	59.20	1.4263	-0.0541	0.4601	-0.0379	0.3226
3	60.19	1.4252	-0.0525	0.4645	-0.0368	0.3259
4	61.21	1.4182	-0.0533	0.4618	-0.0376	0.3256
5	62.21	1.4150	-0.0556	0.4627	-0.0393	0.3270
6	63.22	1.4124	-0.0569	0.4646	-0.0417	0.3290
7	64.21	1.4150	-0.0529	0.4659	-0.0445	0.3300
8	66.22	1.4330	-0.0460	0.4755	-0.0461	0.3318
9	68.23	1.4453	-0.0478	0.4813	-0.0468	0.3330
10	70.22	1.4504	-0.0495	0.4864	-0.0479	0.3354
11	72.25	1.4568	-0.0735	0.4887	-0.0504	0.3355
12	74.24	1.4631	-0.0771	0.4921	-0.0527	0.3363
13	76.26	1.4720	-0.0805	0.4962	-0.0547	0.3371
14	78.25	1.4768	-0.0814	0.4967	-0.0551	0.3377
15	80.25	1.4756	-0.0830	0.5008	-0.0563	0.3396
16	82.25	1.4818	-0.0858	0.5025	-0.0579	0.3391
17	84.30	1.4708	-0.0875	0.5025	-0.0595	0.3417
18	86.26	1.4578	-0.0901	0.4984	-0.0618	0.3420
19	87.31	1.4458	-0.0918	0.4970	-0.0633	0.3440

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1 HAWTIN MISSILE TAIL EFFECTS DATA
SHEET 1 OF 1 SPLITTER PLATE DATA

TEST PART MACH RA10-6 CONF TRANSITION
2 147 1.20 2.5 F14 FREE

POINT	ALPHA	CNF	CM	CH	XCPF	YCPF
1	88.13	1.4332	-0.0998	0.4958	-0.0689	0.3659
2	89.13	1.4267	-0.1018	0.4951	-0.0713	0.3670
3	90.16	1.4207	-0.1060	0.4970	-0.0743	0.3684
4	91.20	1.4215	-0.1102	0.4977	-0.0775	0.3501
5	92.19	1.4146	-0.1156	0.4961	-0.0816	0.3508
6	93.14	1.4209	-0.1209	0.4980	-0.0851	0.3505
7	94.15	1.4153	-0.1221	0.5000	-0.0963	0.3533
8	96.18	1.4217	-0.1294	0.5021	-0.0912	0.3532
9	98.13	1.4252	-0.1373	0.5146	-0.0963	0.3560
10	100.19	1.4342	-0.1449	0.5106	-0.1010	0.3560
11	102.17	1.4374	-0.1509	0.5140	-0.1050	0.3576
12	104.20	1.4406	-0.1567	0.5174	-0.1073	0.3591
13	106.16	1.4429	-0.1588	0.5174	-0.1099	0.3589
14	108.18	1.4377	-0.1621	0.5160	-0.1128	0.3589
15	110.25	1.4444	-0.1663	0.5173	-0.1151	0.3581
16	112.22	1.4452	-0.1695	0.5185	-0.1173	0.3587
17	114.24	1.4407	-0.1707	0.5169	-0.1146	0.3602
18	116.27	1.4318	-0.1726	0.5140	-0.1205	0.3590
19	117.29	1.4286	-0.1734	0.5129	-0.1217	0.3590

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH RX10-6 CONF TRANSITION
2 148 1.20 2.5 F14 FREE

POINT	ALPHA	CNF	CM	CP	XCPF	YCPF
1	118.09	1.4346	-0.1726	0.5136	-0.1196	0.3567
2	119.05	1.4393	-0.1718	0.5123	-0.1194	0.3560
3	120.09	1.4376	-0.1713	0.5093	-0.1192	0.3562
4	121.13	1.4344	-0.1699	0.5089	-0.1184	0.3548
5	122.14	1.4285	-0.1697	0.5120	-0.1188	0.3514
6	123.11	1.4196	-0.1685	0.5107	-0.1187	0.3526
7	124.08	1.4114	-0.1689	0.5187	-0.1196	0.3534
8	126.12	1.3934	-0.1662	0.4925	-0.1207	0.3534
9	128.12	1.3792	-0.1671	0.4856	-0.1212	0.3521
10	130.13	1.3626	-0.1647	0.4781	-0.1209	0.3508
11	132.14	1.3327	-0.1625	0.4869	-0.1219	0.3504
12	134.14	1.3039	-0.1628	0.4560	-0.1248	0.3513
13	136.12	1.2601	-0.1660	0.4516	-0.1296	0.3528
14	138.16	1.2491	-0.1675	0.4433	-0.1341	0.3549
15	140.14	1.2056	-0.1661	0.4271	-0.1377	0.3542
16	142.14	1.1648	-0.1638	0.4250	-0.1431	0.3538
17	144.13	1.0926	-0.1606	0.3843	-0.1483	0.3569
18	146.20	1.0197	-0.1568	0.3833	-0.1538	0.3563
19	147.16	0.9961	-0.1573	0.3955	-0.1579	0.3589

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH RX10-6 CONF TRANSITION
2 1.09 1.20 2.5 F14 FREE

POINT	ALPHA	CNF	CM	CM	XCPF	YCPF
1	148.02	0.4906	-0.1573	0.3520	-0.1604	0.3589
2	149.00	0.4931	-0.1565	0.3431	-0.1642	0.3600
3	150.02	0.9242	-0.1557	0.3359	-0.1685	0.3634
4	151.03	0.8937	-0.1548	0.3241	-0.1732	0.3626
5	152.05	0.8836	-0.1541	0.3117	-0.1784	0.3608
6	153.03	0.8556	-0.1673	0.3228	-0.1932	0.3729
7	154.03	0.8316	-0.1650	0.3079	-0.1983	0.3702
8	156.02	0.7568	-0.1574	0.2828	-0.2074	0.3726
9	158.05	0.6840	-0.1469	0.2554	-0.2177	0.3734
10	160.02	0.6078	-0.1384	0.2284	-0.2277	0.3758
11	162.08	0.5427	-0.1281	0.1972	-0.2404	0.3703
12	164.06	0.4832	-0.1172	0.1732	-0.2530	0.3739
13	166.09	0.3936	-0.1047	0.1401	-0.2665	0.3718
14	168.06	0.3281	-0.0919	0.1183	-0.2801	0.3607
15	170.07	0.2633	-0.0773	0.0920	-0.2934	0.3495
16	172.06	0.2045	-0.0629	0.0691	-0.3076	0.3378
17	174.16	0.1455	-0.0463	0.0429	-0.3165	0.2947
18	176.12	0.0958	-0.0305	0.0242	-0.3184	0.2530
19	177.12	0.0731	-0.0221	0.0167	-0.3019	0.2287

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH RX10-6 CONF TRANSITION
2 150 1.20 2.5 F14 FREE

POINT	ALPHA	CNF	CM	CD	XCPF	YCPF
1	178.01	0.0034	-0.0186	0.0114	-0.2936	0.1792
2	179.01	0.0052	-0.0117	0.0038	-0.2594	0.0830
3	180.00	0.0264	-0.0045	-0.0036	-0.1692	-0.1378
4	181.01	0.0090	0.0024	-0.0132	0.2653	-1.4693
5	181.99	-0.0087	0.0092	-0.0185	-1.0564	2.1305
6	183.04	-0.0270	0.0159	-0.0284	-0.5874	1.0511
7	184.02	-0.0514	0.0242	-0.0370	-0.4713	0.7207
8	186.01	-0.1006	0.0396	-0.0575	-0.3934	0.5721

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH RA10-6 CONF TRANSITION
2 155 0.65 2.5 F14 FREE

POINT	ALPHA	CNF	CM	CA	ACPF	YCPF
1	-2.04	-0.0077	0.0021	-0.0163	-0.0039	0.3609
2	-0.97	-0.0025	0.0008	-0.0073	-0.0352	0.3265
3	0.04	-0.0025	0.0004	0.0017	-0.1748	-0.6768
4	1.04	0.0082	0.0017	0.0186	0.2804	3.0113
5	2.05	0.0282	0.0007	0.0260	0.0241	0.9205
6	3.05	0.0497	0.0008	0.0359	0.0161	0.7187
7	4.07	0.0760	0.0001	0.0481	0.0014	0.6325
8	6.08	0.1373	-0.0007	0.0716	-0.0054	0.5215
9	8.08	0.2068	-0.0025	0.0946	-0.0123	0.4574
10	10.10	0.2814	-0.0042	0.1213	-0.0150	0.4302
11	12.11	0.3565	-0.0052	0.1473	-0.0146	0.4133
12	14.13	0.4352	-0.0060	0.1700	-0.0138	0.3905
13	16.16	0.5031	-0.0061	0.1916	-0.0081	0.3609
14	18.16	0.5607	-0.0029	0.2106	-0.0050	0.3626
15	20.18	0.6204	-0.0040	0.2375	-0.0060	0.3541
16	22.20	0.7037	-0.0017	0.2606	-0.0023	0.3412
17	24.22	0.8526	0.0006	0.2802	0.0007	0.3288
18	26.25	0.9456	0.0005	0.3052	0.0005	0.3228
19	27.25	0.9847	0.0006	0.3178	0.0006	0.3211

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH RX10-6 CONF TRANSITION
2 156 0.80 2.5 F14 FREE

POINT	ALPHA	CNF	CM	CA	XCPF	YCPF
1	29.11	1.0141	0.0013	0.3332	0.0013	0.3222
2	26.20	1.0773	0.0016	0.3453	0.0015	0.3206
3	30.19	1.1098	0.0028	0.3564	0.0025	0.3196
4	31.21	1.1044	0.0035	0.3628	0.0031	0.3169
5	32.21	1.1081	0.0057	0.3667	0.0049	0.3139
6	33.22	1.1791	0.0126	0.3844	0.0107	0.3098
7	34.22	1.1823	0.0197	0.3570	0.0166	0.3028
8	36.20	0.9986	0.0326	0.2888	0.0327	0.2893
9	38.20	1.0167	0.0299	0.2993	0.0294	0.2944
10	40.19	0.9456	-0.0023	0.2924	-0.0024	0.3092
11	42.19	0.9583	-0.0044	0.2985	-0.0046	0.3115
12	44.20	0.9697	-0.0058	0.3032	-0.0060	0.3126
13	46.21	0.9862	-0.0083	0.3101	-0.0085	0.3144
14	48.21	0.9927	-0.0100	0.3159	-0.0101	0.3182
15	50.23	1.0117	-0.0127	0.3213	-0.0125	0.3176
16	52.24	1.0327	-0.0155	0.3292	-0.0150	0.3188
17	54.25	1.0475	-0.0178	0.3356	-0.0170	0.3204
18	56.25	1.0677	-0.0208	0.3426	-0.0194	0.3209
19	57.25	1.0710	-0.0212	0.3462	-0.0198	0.3233

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH RX10-6 CONF TRANSITION
2 157 0.65 2.5 F14 FREE

POINT	ALPHA	CNF	CM	CA	XCPF	YCPF
1	58.08	1.0424	-0.0203	0.3387	-0.0195	0.3248
2	59.16	1.0493	-0.0218	0.3409	-0.0208	0.3249
3	60.17	1.0457	-0.0230	0.3396	-0.0220	0.3295
4	61.18	1.0452	-0.0258	0.3438	-0.0247	0.3289
5	62.18	1.0513	-0.0286	0.3467	-0.0272	0.3298
6	63.16	1.0542	-0.0311	0.3496	-0.0294	0.3301
7	64.17	1.0543	-0.0315	0.3502	-0.0297	0.3306
8	66.18	1.0602	-0.0326	0.3557	-0.0309	0.3355
9	68.18	1.0616	-0.0350	0.3564	-0.0330	0.3356
10	70.20	1.0612	-0.0373	0.3593	-0.0351	0.3386
11	72.19	1.0719	-0.0411	0.3655	-0.0384	0.3418
12	74.19	1.0637	-0.0449	0.3717	-0.0414	0.3430
13	76.20	1.0651	-0.0482	0.3750	-0.0440	0.3461
14	77.32	1.0977	-0.0506	0.3808	-0.0461	0.3469
15	80.20	1.1046	-0.0575	0.3882	-0.0518	0.3498
16	82.22	1.1070	-0.0616	0.3913	-0.0557	0.3535
17	84.22	1.1052	-0.0669	0.3921	-0.0605	0.3548
18	86.23	1.0995	-0.0722	0.3925	-0.0657	0.3570
19	87.23	1.0950	-0.0761	0.3934	-0.0676	0.3593

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH RX10-6 CONF TRANSITION
2 15M 0.60 2.5 F14 FREE

POINT	ALPHA	CNF	Cm	CH	ACPF	YCPF
1	88.06	1.0561	-0.0731	0.3802	-0.0692	0.3608
2	89.06	1.0552	-0.0756	0.3795	-0.0716	0.3597
3	90.14	1.0455	-0.0769	0.3772	-0.0736	0.3606
4	91.14	1.0413	-0.0791	0.3760	-0.0759	0.3611
5	92.13	1.0249	-0.0513	0.3734	-0.0790	0.3627
6	93.14	1.0259	-0.0657	0.3723	-0.0836	0.3632
7	94.14	1.0258	-0.0680	0.3759	-0.0559	0.3665
8	96.15	1.0104	-0.0953	0.3702	-0.0963	0.3664
9	98.15	1.0080	-0.1045	0.3750	-0.1026	0.3717
10	100.14	1.0064	-0.1102	0.3758	-0.1095	0.3734
11	102.15	1.0067	-0.1164	0.3771	-0.1156	0.3739
12	104.16	1.0072	-0.1222	0.3764	-0.1213	0.3737
13	106.15	1.0037	-0.1265	0.3773	-0.1260	0.3759
14	108.16	0.9956	-0.1297	0.3748	-0.1303	0.3764
15	110.15	0.9943	-0.1360	0.3769	-0.1361	0.3771
16	112.17	1.0006	-0.1385	0.3778	-0.1385	0.3776
17	114.16	0.9930	-0.1396	0.3741	-0.1406	0.3767
18	116.18	0.9872	-0.1401	0.3720	-0.1420	0.3768
19	117.17	0.9870	-0.1415	0.3680	-0.1439	0.3728

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH RAIU=6 CONF TRANSITION
2 159 0.65 2.5 F14 FREE

POINT	ALPHA	CNF	CM	CA	XCPF	YCPF
1	118.01	0.9671	-0.1396	0.3615	-0.1441	0.3738
2	119.10	0.9642	-0.1398	0.3573	-0.1450	0.3706
3	120.10	0.9606	-0.1397	0.3555	-0.1453	0.3700
4	121.10	0.9566	-0.1389	0.3552	-0.1452	0.3714
5	122.10	0.9526	-0.1392	0.3522	-0.1461	0.3698
6	123.11	0.9514	-0.1389	0.3512	-0.1460	0.3692
7	124.10	0.9478	-0.1390	0.3483	-0.1467	0.3677
8	126.10	0.9387	-0.1377	0.3437	-0.1470	0.3669
9	128.11	0.9247	-0.1354	0.3387	-0.1464	0.3663
10	130.11	0.9196	-0.1352	0.3349	-0.1471	0.3642
11	132.11	0.9057	-0.1329	0.3297	-0.1467	0.3641
12	134.12	0.8944	-0.1322	0.3257	-0.1478	0.3641
13	136.12	0.8849	-0.1314	0.3199	-0.1485	0.3615
14	138.13	0.8763	-0.1299	0.3182	-0.1482	0.3632
15	140.13	0.8691	-0.1306	0.3165	-0.1503	0.3619
16	142.13	0.8616	-0.1299	0.3089	-0.1509	0.3588
17	144.15	0.8556	-0.1330	0.3090	-0.1554	0.3612
18	146.16	0.8347	-0.1337	0.3029	-0.1602	0.3629
19	147.16	0.8254	-0.1366	0.2992	-0.1629	0.3625

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1 HANTIS MISSILE TAIL EFFECTS DATA
SHEET 1 OF 1 SPLITTER PLATE DATA

TEST PART MACH 8X10-6 CONE TRANSITION
2 100 0.65 2.5 F16 FREE

POINT	ALPHA	CNF	CM	CA	XCPF	YCPF
1	147.98	0.8135	-0.1337	0.2926	-0.1639	0.3596
2	149.04	0.8031	-0.1341	0.2865	-0.1669	0.3568
3	150.08	0.7772	-0.1307	0.2791	-0.1682	0.3592
4	151.09	0.7444	-0.1260	0.2682	-0.1692	0.3603
5	152.08	0.7191	-0.1234	0.2582	-0.1723	0.3598
6	153.07	0.6894	-0.1203	0.2487	-0.1746	0.3607
7	154.08	0.6596	-0.1184	0.2404	-0.1783	0.3613
8	156.09	0.6094	-0.1137	0.2244	-0.1866	0.3682
9	158.08	0.5596	-0.1104	0.2096	-0.1974	0.3705
10	160.08	0.5073	-0.1069	0.1930	-0.2107	0.3805
11	162.06	0.4574	-0.1061	0.1806	-0.2316	0.3904
12	164.09	0.4062	-0.1049	0.1645	-0.2583	0.4049
13	166.08	0.3504	-0.1043	0.1479	-0.2857	0.4216
14	168.09	0.2915	-0.0904	0.1237	-0.3103	0.4203
15	170.09	0.2378	-0.0793	0.0995	-0.3335	0.4186
16	172.10	0.1772	-0.0606	0.0724	-0.3422	0.4084
17	174.10	0.1253	-0.0442	0.0511	-0.3530	0.4079
18	176.12	0.0756	-0.0274	0.0279	-0.3622	0.3686
19	177.11	0.0535	-0.0192	0.0189	-0.3583	0.3629

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST	PART	MACH	RX10-6	CONF	TRANSITION
2	161	0.65	2.5	F14	FREE

POINT	ALPHA	CNF	CM	CS	XCPF	YCPF
1	178.00	0.0408	-0.0138	0.0145	-0.3395	0.3559
2	178.99	0.0256	-0.0082	0.0077	-0.3193	0.3010
3	180.02	0.0128	-0.0027	0.0010	-0.2145	0.0791
4	180.99	-0.0033	0.0038	-0.0039	-1.1528	1.1774
5	182.01	-0.0198	0.0101	-0.0121	-0.5113	0.6099
6	183.03	-0.0367	0.0171	-0.0183	-0.4292	0.4608
7	184.05	-0.0510	0.0250	-0.0271	-0.4989	0.4436
8	186.04	-0.1104	0.0415	-0.0490	-0.3762	0.4418

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH RX10-6 CONF TRANSITION
2 162 0.9C 2.5 F14 FREE

POINT	ALPHA	CNF	CM	CA	ACPF	YCPF
1	-2.03	-0.0016	-0.0001	-0.0239	0.0031	0.5726
2	-0.98	-0.0175	-0.0001	-0.0130	0.0060	0.7404
3	0.04	0.0029	-0.0008	-0.0028	-0.2639	-0.9549
4	1.09	0.0253	-0.0015	0.0067	-0.0582	0.2639
5	2.05	0.0416	-0.0010	0.0190	-0.0230	0.4552
6	3.05	0.0642	-0.0011	0.0299	-0.0184	0.4661
7	4.07	0.0912	-0.0020	0.0407	-0.0222	0.4661
8	6.07	0.1495	-0.0031	0.0671	-0.0238	0.4485
9	8.08	0.2214	-0.0061	0.0946	-0.0274	0.4275
10	10.10	0.2952	-0.0081	0.1205	-0.0274	0.4083
11	12.12	0.3762	-0.0109	0.1476	-0.0299	0.3924
12	14.13	0.4574	-0.0127	0.1719	-0.0278	0.3751
13	16.16	0.5356	-0.0128	0.1971	-0.0238	0.3678
14	18.17	0.6146	-0.0134	0.2150	-0.0218	0.3498
15	20.19	0.7017	-0.0145	0.2405	-0.0207	0.3427
16	22.20	0.7961	-0.0144	0.2640	-0.0181	0.3316
17	24.22	0.8802	-0.0135	0.2857	-0.0153	0.3246
18	26.25	0.9734	-0.0153	0.3106	-0.0158	0.3191
19	27.28	1.0154	-0.0158	0.3224	-0.0155	0.3175

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH RE/D=6 CONF TRANSITION
2 163 0.6 2.5 F14 FREE

POINT	ALPHA	CNF	CM	CD	XCPF	YCPF
1	13.02	0.4294	-0.0117	0.1809	-0.0271	0.3763
2	14.11	0.4751	-0.0124	0.1771	-0.0261	0.3727
3	15.11	0.5141	-0.0125	0.1803	-0.0244	0.3663
4	16.13	0.5507	-0.0123	0.1980	-0.0224	0.3596
5	17.13	0.5926	-0.0134	0.2079	-0.0226	0.3509
6	18.14	0.6346	-0.0140	0.2176	-0.0220	0.3429
7	19.15	0.6736	-0.0141	0.2297	-0.0210	0.3411
8	21.17	0.7644	-0.0139	0.2542	-0.0182	0.3325
9	23.16	0.8568	-0.0132	0.2756	-0.0155	0.3216
10	25.20	0.9467	-0.0138	0.3002	-0.0146	0.3171
11	27.22	1.0361	-0.0159	0.3269	-0.0154	0.3155
12	29.23	1.1148	-0.0167	0.3514	-0.0150	0.3146
13	31.26	1.1837	-0.0165	0.3696	-0.0122	0.3123
14	33.27	1.1990	-0.0015	0.3647	-0.0013	0.3042
15	35.27	1.1342	0.0324	0.3263	0.0286	0.2877
16	37.26	1.0698	0.0257	0.3057	0.0240	0.2857
17	39.26	1.0758	-0.0022	0.3238	-0.0021	0.3003
18	41.26	1.0404	-0.0106	0.3166	-0.0102	0.3041
19	42.27	1.0451	-0.0168	0.3185	-0.0104	0.3067

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH RX10-6 CONF TRANSITION
2 164 0.62 2.5 #14 FREE

POINT	ALPHA	CNF	Cm	Cz	XCPF	YCPF
1	40.20	1.0023	-0.0073	0.3436	-0.0073	0.3029
2	42.22	1.0152	-0.0091	0.3559	-0.0099	0.3013
3	44.21	1.0274	-0.0106	0.3132	-0.0104	0.3048
4	46.23	1.0323	-0.0125	0.3181	-0.0121	0.3081
5	48.23	1.0496	-0.0161	0.3202	-0.0156	0.3056
6	50.23	1.0635	-0.0161	0.3291	-0.0170	0.3094
7	52.24	1.0756	-0.0197	0.3363	-0.0183	0.3127
8	54.26	1.0961	-0.0228	0.3421	-0.0208	0.3126
9	56.27	1.1132	-0.0253	0.3505	-0.0227	0.3148
10	57.27	1.1246	-0.0266	0.3535	-0.0237	0.3144

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1 MARTIN MISSILE TAIL EFFECTS DATA
SHEET 1 OF 1 SPLITTER PLATE DATA

TEST PART MACH E*10-6 CONF TRANSITION
2 166 0.62 2.5 F14 FREE

POINT	ALPHA	CNF	CM	CN	XCPF	YCPF
1	58.64	1.0759	-0.0247	0.3372	-0.0230	0.3134
2	59.17	1.0806	-0.0263	0.3397	-0.0244	0.3143
3	60.16	1.0852	-0.0274	0.3424	-0.0252	0.3153
4	61.18	1.0895	-0.0283	0.3452	-0.0260	0.3168
5	62.18	1.0960	-0.0283	0.3462	-0.0261	0.3188
6	63.17	1.0919	-0.0303	0.3499	-0.0277	0.3204
7	64.18	1.0874	-0.0317	0.3501	-0.0291	0.3218
8	66.19	1.0814	-0.0304	0.3499	-0.0322	0.3236
9	68.19	1.0852	-0.0372	0.3550	-0.0342	0.3271
10	70.21	1.0891	-0.0405	0.3595	-0.0372	0.3301
11	72.20	1.0946	-0.0450	0.3640	-0.0409	0.3313
12	74.21	1.1042	-0.0488	0.3706	-0.0441	0.3344
13	76.22	1.1160	-0.0533	0.3776	-0.0477	0.3376
14	78.22	1.1295	-0.0579	0.3843	-0.0512	0.3403
15	80.23	1.1325	-0.0612	0.3881	-0.0540	0.3427
16	82.22	1.1337	-0.0661	0.3891	-0.0583	0.3432
17	84.24	1.1327	-0.0705	0.3914	-0.0622	0.3456
18	86.24	1.1274	-0.0743	0.3915	-0.0659	0.3473
19	87.25	1.1251	-0.0772	0.3918	-0.0686	0.3483

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH RX10-6 CONF TRANSITION
2 167 0.6c 2.5 F14 FREE

POINT	ALPHA	CNF	CM	CA	XCPF	YCPF
1	89.08	1.0686	-0.0780	0.3750	-0.0711	0.3510
2	89.08	1.0616	-0.0782	0.3728	-0.0737	0.3512
3	90.13	1.0524	-0.0816	0.3730	-0.0776	0.3546
4	91.13	1.0484	-0.0843	0.3732	-0.0804	0.3560
5	92.15	1.0430	-0.0890	0.3726	-0.0853	0.3572
6	93.14	1.0346	-0.0931	0.3703	-0.0900	0.3581
7	94.15	1.0302	-0.0981	0.3707	-0.0952	0.3599
8	96.15	1.0277	-0.1060	0.3723	-0.1031	0.3622
9	98.16	1.0237	-0.1127	0.3737	-0.1101	0.3651
10	100.15	1.0376	-0.1200	0.3779	-0.1157	0.3642
11	102.15	1.0396	-0.1240	0.3811	-0.1196	0.3670
12	104.15	1.0406	-0.1240	0.3816	-0.1239	0.3666
13	106.16	1.0496	-0.1341	0.3854	-0.1277	0.3675
14	108.17	1.0416	-0.1360	0.3815	-0.1307	0.3664
15	110.16	1.0395	-0.1391	0.3794	-0.1338	0.3648
16	112.16	1.0420	-0.1408	0.3805	-0.1351	0.3651
17	113.20	1.0406	-0.1416	0.3805	-0.1361	0.3659
18	116.19	1.0432	-0.1429	0.3795	-0.1369	0.3638
19	117.20	1.0416	-0.1436	0.3780	-0.1379	0.3609

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH RE/0-6 CONF TRANSITION
2 168 0.92 2.5 F14 FREE

POINT	ALPHA	CNF	CM	CD	ACPF	YCPF
1	118.02	1.0145	-0.1403	0.3666	-0.1383	0.3612
2	119.09	1.0146	-0.1412	0.3661	-0.1387	0.3596
3	120.09	1.0245	-0.1392	0.3594	-0.1386	0.3578
4	121.11	1.0086	-0.1396	0.3604	-0.1389	0.3582
5	122.11	1.0011	-0.1397	0.3573	-0.1396	0.3569
6	123.10	0.9984	-0.1397	0.3560	-0.1399	0.3565
7	124.11	0.9962	-0.1387	0.3539	-0.1395	0.3560
8	126.11	0.9793	-0.1372	0.3483	-0.1431	0.3556
9	128.11	0.9747	-0.1374	0.3462	-0.1410	0.3552
10	130.11	0.9643	-0.1371	0.3390	-0.1422	0.3516
11	132.11	0.9564	-0.1368	0.3335	-0.1439	0.3509
12	134.11	0.9443	-0.1366	0.3310	-0.1447	0.3505
13	136.12	0.9298	-0.1362	0.3251	-0.1465	0.3496
14	138.13	0.9252	-0.1373	0.3224	-0.1485	0.3485
15	140.12	0.9175	-0.1362	0.3191	-0.1501	0.3516
16	142.14	0.8905	-0.1356	0.3140	-0.1523	0.3527
17	144.14	0.8992	-0.1379	0.3190	-0.1559	0.3506
18	146.15	0.8596	-0.1366	0.3040	-0.1592	0.3536
19	147.15	0.8447	-0.1364	0.2963	-0.1615	0.3507

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH R$10-6 CONF TRANSITION
2 109 0.62 2.5 F14 FREE

POINT	ALPHA	CNF	Cm	CA	XCPF	YCPF
1	148.06	0.8409	-0.1351	0.2437	-0.1607	0.3493
2	149.07	0.8141	-0.1320	0.2637	-0.1622	0.3485
3	150.06	0.7912	-0.1301	0.2759	-0.1645	0.3487
4	151.07	0.7603	-0.1261	0.2672	-0.1659	0.3515
5	152.07	0.7434	-0.1238	0.2567	-0.1687	0.3508
6	153.07	0.7099	-0.1224	0.2504	-0.1724	0.3527
7	154.07	0.6872	-0.1213	0.2446	-0.1765	0.3563
8	156.07	0.6401	-0.1185	0.2289	-0.1857	0.3576
9	158.06	0.5825	-0.1136	0.2100	-0.1950	0.3602
10	160.08	0.5305	-0.1099	0.1926	-0.2072	0.3631
11	162.07	0.4822	-0.1061	0.1772	-0.2242	0.3675
12	164.06	0.4586	-0.1303	0.1645	-0.2862	0.4241
13	166.07	0.3956	-0.1184	0.1560	-0.3002	0.4019
14	168.09	0.3282	-0.1026	0.1334	-0.3131	0.3974
15	170.09	0.2653	-0.0861	0.1035	-0.3246	0.3908
16	172.09	0.2044	-0.0692	0.0783	-0.3385	0.3838
17	174.09	0.1486	-0.0515	0.0521	-0.3482	0.3521
18	176.10	0.0940	-0.0333	0.0305	-0.3540	0.3244
19	177.12	0.0682	-0.0236	0.0206	-0.3467	0.3028

MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH RA10-6 CONF TRANSITION
2 170 0.62 2.5 F14 FREE

POINT	ALPHA	CNF	CN	C_m	ACPF	YCPF
1	179.00	0.0531	-0.0177	0.0134	-0.3332	0.2531
2	179.01	0.0360	-0.0110	0.0056	-0.3142	0.1545
3	179.99	0.0196	-0.0043	0.0010	-0.2154	0.0688
4	181.01	0.0067	0.0013	-0.0066	0.1860	-0.9851
5	181.99	-0.0101	0.0080	-0.0127	-0.7921	1.2656
6	183.05	-0.0320	0.0182	-0.0207	-0.5043	0.6463
7	184.01	-0.0547	0.0242	-0.0296	-0.4423	0.5408
8	186.06	-0.1091	0.0429	-0.0517	-0.3933	0.4760

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH PX10-6 CONF TRANSITION
2 171 0.60 2.5 F14 FREE

POINT	ALPHA	CNF	Cm	CA	XCPF	YCPF
1	-2.03	-0.0404	0.0007	-0.0271	-0.0168	0.6698
2	-0.97	-0.0141	-0.0010	-0.0122	0.0738	0.8680
3	0.03	0.0087	-0.0014	-0.0039	-0.1659	-0.4448
4	1.05	0.0331	-0.0028	0.0070	-0.0847	0.2108
5	2.05	0.0586	-0.0042	0.0193	-0.0731	0.3401
6	3.05	0.0819	-0.0049	0.0325	-0.0598	0.3964
7	4.06	0.1091	-0.0063	0.0438	-0.0574	0.4011
8	5.06	0.1726	-0.0099	0.0718	-0.0575	0.4155
9	8.09	0.2943	-0.0130	0.0981	-0.0532	0.4016
10	10.10	0.3643	-0.0176	0.1268	-0.0544	0.3910
11	12.12	0.4062	-0.0222	0.1565	-0.0547	0.3853
12	14.13	0.4903	-0.0259	0.1807	-0.0528	0.3685
13	16.16	0.5758	-0.0294	0.2067	-0.0519	0.3592
14	18.17	0.6550	-0.0314	0.2316	-0.0479	0.3536
15	20.20	0.7411	-0.0340	0.2572	-0.0459	0.3478
16	22.21	0.8328	-0.0344	0.2798	-0.0416	0.3359
17	24.25	0.9185	-0.0360	0.3003	-0.0371	0.3269
18	26.27	1.0029	-0.0368	0.3233	-0.0345	0.3224
19	27.27	1.0436	-0.0362	0.3376	-0.0328	0.3236

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH RE/0-6 CONF TRANSITION
2 172 0.60 2.5 F1A FREE

POINT	ALPHA	CNF	CM	CH	ACPF	XCPF
1	28.13	1.1053	-0.0363	0.3534	-0.0329	0.3197
2	29.19	1.1434	-0.0367	0.3562	-0.0321	0.3203
3	30.14	1.1756	-0.0373	0.3755	-0.0318	0.3194
4	31.20	1.2094	-0.0371	0.3670	-0.0307	0.3200
5	32.19	1.2414	-0.0366	0.3630	-0.0295	0.3165
6	33.22	1.2704	-0.0344	0.4119	-0.0271	0.3164
7	34.22	1.2748	-0.0206	0.3478	-0.0208	0.3108
8	36.23	1.2183	0.0069	0.3557	0.0057	0.2919
9	38.22	1.1559	0.0221	0.3309	0.0191	0.2862
10	40.23	1.1643	-0.0049	0.3453	-0.0042	0.2966
11	42.23	1.1600	-0.0154	0.3525	-0.0133	0.3038
12	44.22	1.1584	-0.0197	0.3536	-0.0170	0.3051
13	45.33	1.1565	-0.0202	0.3526	-0.0174	0.3049
14	46.24	1.1555	-0.0206	0.3604	-0.0177	0.3097
15	50.25	1.1752	-0.0232	0.3641	-0.0198	0.3098
16	51.36	1.1730	-0.0244	0.3641	-0.0208	0.3104
17	54.28	1.2408	-0.0283	0.3748	-0.0235	0.3122
18	56.29	1.2206	-0.0301	0.3658	-0.0246	0.3160
19	57.24	1.2286	-0.0315	0.3700	-0.0257	0.3176

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH RX10-6 CONF TRANSITION
2 173 0.90 2.5 F14 FREE

POINT	ALPHA	CNF	CM	CA	XCPF	YCPF
1	58.11	1.1366	-0.0240	0.3577	-0.0255	0.3162
2	59.16	1.1552	-0.0311	0.3655	-0.0269	0.3164
3	60.18	1.1632	-0.0322	0.3696	-0.0277	0.3177
4	61.19	1.1705	-0.0337	0.3732	-0.0288	0.3189
5	62.19	1.1641	-0.0347	0.3725	-0.0298	0.3208
6	63.18	1.1637	-0.0358	0.3743	-0.0308	0.3216
7	64.14	1.1576	-0.0379	0.3716	-0.0328	0.3210
8	64.19	1.1505	-0.0346	0.3726	-0.0344	0.3240
9	68.19	1.1641	-0.0419	0.3776	-0.0365	0.3289
10	70.20	1.1642	-0.0446	0.3791	-0.0389	0.3302
11	72.21	1.1534	-0.0487	0.3834	-0.0422	0.3323
12	74.21	1.1641	-0.0530	0.3909	-0.0455	0.3358
13	76.22	1.1673	-0.0585	0.3991	-0.0493	0.3361
14	78.23	1.1921	-0.0626	0.4054	-0.0527	0.3404
15	80.23	1.1983	-0.0674	0.4078	-0.0566	0.3397
16	82.24	1.1977	-0.0713	0.4094	-0.0595	0.3418
17	84.25	1.1956	-0.0750	0.4120	-0.0627	0.3446
18	86.26	1.1987	-0.0796	0.4152	-0.0664	0.3464
19	87.27	1.2066	-0.0824	0.4183	-0.0686	0.3473

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST	PART	MACH	RX10-6	CONF	TRANSITION
2	174	0.90	2.5	F14	FREE

POINT	ALPHA	CNF	CM	CA	XCPF	YCPF
1	88.08	1.1203	-0.0795	0.3891	-0.0767	0.3661
2	90.08	1.1114	-0.0842	0.3897	-0.0757	0.3505
3	91.13	1.1097	-0.0870	0.3921	-0.0784	0.3533
4	92.13	1.1115	-0.0911	0.3931	-0.0820	0.3536
5	93.14	1.1122	-0.0962	0.3946	-0.0865	0.3568
6	94.14	1.1114	-0.0990	0.3966	-0.0890	0.3569
7	96.14	1.1091	-0.1085	0.3984	-0.0978	0.3578
8	98.14	1.1142	-0.1161	0.4002	-0.1042	0.3592
9	100.15	1.1168	-0.1224	0.4044	-0.1099	0.3621
10	102.15	1.1231	-0.1262	0.4057	-0.1141	0.3612
11	104.16	1.1292	-0.1326	0.4091	-0.1174	0.3623
12	106.16	1.1220	-0.1371	0.4049	-0.1222	0.3609
13	108.17	1.1236	-0.1403	0.4078	-0.1249	0.3632
14	110.17	1.1247	-0.1435	0.4104	-0.1276	0.3648
15	112.18	1.1336	-0.1457	0.4118	-0.1285	0.3630
16	114.19	1.1407	-0.1490	0.4129	-0.1306	0.3620
17	116.20	1.1456	-0.1521	0.4145	-0.1305	0.3599
18	117.21	1.1706	-0.1530	0.4222	-0.1308	0.3608

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH RX10-6 CONF TRANSITION
2 175 0.60 2.5 F16 FREE

POINT	ALPHA	CNF	CM	CD	XCPF	YCPF
1	118.05	1.1511	-0.1515	0.4113	-0.1316	0.3573
2	119.06	1.1620	-0.1525	0.4163	-0.1312	0.3583
3	120.05	1.1743	-0.1537	0.4197	-0.1303	0.3559
4	121.10	1.1850	-0.1542	0.4210	-0.1301	0.3552
5	122.10	1.1969	-0.1558	0.4269	-0.1310	0.3566
6	123.11	1.1977	-0.1559	0.4258	-0.1302	0.3556
7	124.12	1.1973	-0.1562	0.4231	-0.1305	0.3536
8	126.12	1.1757	-0.1548	0.4161	-0.1317	0.3539
9	128.11	1.1618	-0.1546	0.4108	-0.1331	0.3536
10	130.12	1.1433	-0.1532	0.4047	-0.1340	0.3540
11	132.12	1.1400	-0.1538	0.4008	-0.1350	0.3510
12	134.12	1.1434	-0.1555	0.4007	-0.1360	0.3505
13	136.12	1.1472	-0.1558	0.3967	-0.1342	0.3502
14	138.13	1.1366	-0.1571	0.3983	-0.1382	0.3504
15	140.14	1.1101	-0.1563	0.3831	-0.1408	0.3496
16	142.15	1.0908	-0.1559	0.3813	-0.1429	0.3496
17	144.16	1.0565	-0.1559	0.3688	-0.1471	0.3491
18	146.17	1.0151	-0.1566	0.3579	-0.1523	0.3526
19	147.18	0.9925	-0.1562	0.3505	-0.1556	0.3532

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH NR*10-6 CONF TRANSITION
2 176 0.60 2.5 F14 FREE

POINT	ALPHA	CNF	CM	CA	XCPF	YCPF
1	148.00	0.9488	-0.1555	0.3945	-0.1573	0.3686
2	149.06	0.9638	-0.1552	0.3397	-0.1610	0.3525
3	150.06	0.9480	-0.1599	0.3342	-0.1650	0.3525
4	151.06	0.9606	-0.1562	0.3255	-0.1697	0.3536
5	152.07	0.9056	-0.1627	0.3252	-0.1737	0.3590
6	153.06	0.8626	-0.1576	0.3107	-0.1827	0.3602
7	154.06	0.8321	-0.1577	0.3028	-0.1895	0.3639
8	156.07	0.7612	-0.1538	0.2819	-0.2021	0.3704
9	158.06	0.7094	-0.1714	0.2817	-0.2350	0.3861
10	160.06	0.6537	-0.1619	0.2508	-0.2477	0.3837
11	162.07	0.5723	-0.1486	0.2230	-0.2596	0.3897
12	164.06	0.4960	-0.1356	0.1915	-0.2722	0.3846
13	166.07	0.4263	-0.1209	0.1618	-0.2850	0.3814
14	168.08	0.3493	-0.1040	0.1336	-0.2977	0.3824
15	170.08	0.2818	-0.0880	0.1052	-0.3127	0.3735
16	172.10	0.2161	-0.0703	0.0764	-0.3251	0.3533
17	174.11	0.1583	-0.0536	0.0498	-0.3368	0.3144
18	176.11	0.1033	-0.0351	0.0286	-0.3395	0.2769
19	177.11	0.0782	-0.0262	0.0185	-0.3325	0.2350

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART	MACH	RX10-6	CONF	TRANSITION
2	177	0.98	2.5	F14 FREE

POINT	ALPHA	CNF	CM	CS	ACPF	YCPF
1	178.00	0.0595	-0.0184	0.0110	-0.3095	0.1856
2	178.99	0.0407	-0.0112	0.0013	-0.2756	0.0315
3	180.01	0.0240	-0.0042	-0.0036	-0.1746	-0.1501
4	181.03	0.0078	0.0021	-0.0114	0.2583	-1.4583
5	182.01	-0.0126	0.0100	-0.0182	-0.7938	1.4471
6	183.05	-0.0349	0.0143	-0.0262	-0.5762	0.7509
7	184.06	-0.0700	0.0407	-0.0424	-0.4384	0.6056
8	186.02	-0.0487	0.0229	-0.0361	-0.4709	0.7417

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1 MARTIN MISSILE TAIL EFFECTS DATA
SHEET 1 OF 1 SPLITTER PLATE DATA

TEST PART MACH RX10-6 CONF TRANSITION
2 184 0.60 2.5 F11 FREE

POINT	ALPHA	CNF	Cm	Cy	XCPF	YCPF
1	-2.04	-0.0501	-0.0201	-0.0322	0.4021	0.6425
2	-0.97	-0.0234	-0.0122	-0.0164	0.5232	0.7886
3	0.03	-0.0016	-0.0036	-0.0156	2.0421	3.8414
4	1.04	0.0223	0.0033	0.0060	0.1458	0.2667
5	2.06	0.0453	0.0112	0.0163	0.2461	0.3586
6	3.05	0.0676	0.0206	0.0324	0.3048	0.4851
7	4.06	0.0945	0.0294	0.0433	0.3112	0.4578
8	6.08	0.1591	0.0483	0.0746	0.2745	0.4689
9	8.09	0.2276	0.0613	0.1156	0.2696	0.5076
10	10.11	0.3060	0.0717	0.1552	0.2344	0.5073
11	12.13	0.3902	0.0784	0.1992	0.2010	0.5105
12	14.14	0.4766	0.0775	0.2408	0.1632	0.5073
13	16.16	0.5509	0.0706	0.2787	0.1341	0.5059
14	18.18	0.6412	0.0647	0.3230	0.1087	0.5037
15	20.18	0.7292	0.0691	0.3621	0.0968	0.4966
16	22.19	0.7768	0.0569	0.3763	0.0731	0.4907
17	24.20	0.7695	0.0452	0.3717	0.0587	0.4836
18	26.21	0.7740	0.0440	0.3763	0.0568	0.4862
19	27.22	0.7860	0.0426	0.3795	0.0542	0.4828

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH PALU-D CONF TRANSITION
2 185 0.80 2.5 F11 FREE

POINT	ALPHA	CNF	CM	CM	XCPF	YCPF
1	28.06	0.7870	0.0416	0.3781	0.0531	0.4804
2	29.15	0.7992	0.0424	0.3868	0.0531	0.4839
3	30.15	0.8141	0.0427	0.3957	0.0525	0.4861
4	31.16	0.8247	0.0423	0.3986	0.0513	0.4833
5	32.16	0.8316	0.0394	0.3999	0.0474	0.4812
6	33.15	0.8374	0.0385	0.4058	0.0460	0.4845
7	34.17	0.8516	0.0369	0.4101	0.0433	0.4816
8	35.16	0.8736	0.0365	0.4210	0.0394	0.4820
9	38.17	0.9016	0.0317	0.4351	0.0352	0.4828
10	40.18	0.9266	0.0294	0.4469	0.0318	0.4844
11	42.19	0.9474	0.0273	0.4572	0.0288	0.4826
12	44.20	0.9615	0.0234	0.4736	0.0238	0.4825
13	46.20	1.0076	0.0217	0.4892	0.0215	0.4855
14	48.22	1.0475	0.0184	0.5090	0.0180	0.4859
15	50.21	1.0823	0.0154	0.5276	0.0145	0.4872
16	52.23	1.0879	0.0135	0.5340	0.0125	0.4908
17	54.24	1.1001	0.0096	0.5387	0.0088	0.4897
18	56.25	1.1134	0.0060	0.5491	0.0054	0.4932
19	57.25	1.1235	0.0050	0.5535	0.0046	0.4926

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MALM RX16-6 CONF TRANSITION
2 186 0.60 2.5 F11 FREE

POINT	ALPHA	CNF	CM	CN	XCPF	YCPF
1	58.10	1.0695	0.0050	0.5364	0.0046	0.4924
2	59.16	1.0691	0.0020	0.5352	0.0018	0.4914
3	60.16	1.0742	-0.0003	0.5373	-0.0003	0.4915
4	61.17	1.0778	-0.0026	0.5394	-0.0023	0.4914
5	62.18	1.1021	-0.0029	0.5455	-0.0026	0.4950
6	63.18	1.0982	-0.0048	0.5425	-0.0044	0.4940
7	64.17	1.1106	-0.0051	0.5467	-0.0047	0.4965
8	66.18	1.1032	-0.0086	0.5492	-0.0076	0.4979
9	68.18	1.1164	-0.0110	0.5607	-0.0098	0.5020
10	70.19	1.1221	-0.0167	0.5640	-0.0149	0.5027
11	72.19	1.1284	-0.0235	0.5762	-0.0205	0.5017
12	74.20	1.1525	-0.0249	0.5804	-0.0216	0.5071
13	76.20	1.1617	-0.0273	0.5930	-0.0235	0.5105
14	78.21	1.1725	-0.0351	0.5960	-0.0299	0.5063
15	79.31	1.1795	-0.0376	0.6005	-0.0318	0.5092
16	82.22	1.1852	-0.0439	0.6111	-0.0370	0.5156
17	84.23	1.1891	-0.0498	0.6125	-0.0419	0.5151
18	86.23	1.1939	-0.0536	0.6230	-0.0449	0.5218
19	87.23	1.1963	-0.0579	0.6136	-0.0488	0.5173

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH RX10-6 CONF TRANSITION
2 187 0.80 2.5 F11 FREE

POINT	ALPHA	CNF	CM	CL	XCPF	YCPF
1	88.14	1.1573	-0.0567	0.6122	-0.0690	0.5203
2	89.10	1.1504	-0.0591	0.6007	-0.0514	0.5222
3	90.16	1.1502	-0.0633	0.6200	-0.0550	0.5216
4	91.17	1.1557	-0.0687	0.6008	-0.0594	0.5199
5	92.16	1.1579	-0.0737	0.5999	-0.0637	0.5181
6	93.17	1.1582	-0.0769	0.5994	-0.0665	0.5190
7	94.16	1.1565	-0.0794	0.6003	-0.0686	0.5189
8	96.17	1.1642	-0.0856	0.6018	-0.0737	0.5169
9	98.16	1.1659	-0.0916	0.5999	-0.0783	0.5128
10	100.18	1.1714	-0.0957	0.5989	-0.0816	0.5111
11	102.17	1.1716	-0.1000	0.5980	-0.0854	0.5086
12	104.18	1.1735	-0.1036	0.5948	-0.0883	0.5069
13	106.16	1.1727	-0.1078	0.5919	-0.0918	0.5047
14	108.19	1.1785	-0.1130	0.5960	-0.0959	0.5064
15	110.19	1.1645	-0.1145	0.5655	-0.0983	0.5028
16	112.21	1.1596	-0.1174	0.5456	-0.1013	0.5050
17	114.21	1.1456	-0.1204	0.5768	-0.1048	0.5021
18	116.22	1.1409	-0.1233	0.5693	-0.1081	0.4990
19	117.22	1.1392	-0.1249	0.5712	-0.1096	0.5016

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH RATIO-S CONF TRANSITION
2 INB 0.60 2.5 FIL FREE

POINT	ALPHA	CNF	Cm	Cn	xCPF	YCPF
1	118.05	1.1092	-0.1216	0.5547	-0.1098	0.5000
2	119.12	1.1006	-0.1231	0.5481	-0.1118	0.4980
3	120.12	1.1017	-0.1243	0.5491	-0.1128	0.4986
4	121.13	1.1029	-0.1268	0.5470	-0.1150	0.4960
5	122.13	1.1016	-0.1295	0.5492	-0.1175	0.4961
6	123.13	1.0949	-0.1295	0.5405	-0.1183	0.4936
7	124.13	1.0912	-0.1315	0.5403	-0.1205	0.4952
8	126.13	1.0874	-0.1339	0.5362	-0.1231	0.4929
9	127.26	1.0868	-0.1365	0.5362	-0.1256	0.4915
10	130.14	1.0571	-0.1375	0.5176	-0.1301	0.4898
11	132.14	1.0445	-0.1369	0.5129	-0.1330	0.4918
12	134.14	1.0184	-0.1400	0.4969	-0.1374	0.4879
13	136.15	0.9978	-0.1387	0.4798	-0.1404	0.4857
14	138.14	0.9843	-0.1387	0.4676	-0.1438	0.4850
15	139.26	0.9847	-0.1377	0.4610	-0.1457	0.4880
16	142.16	0.9161	-0.1375	0.4436	-0.1501	0.4842
17	144.16	0.8926	-0.1364	0.4324	-0.1529	0.4844
18	146.17	0.8712	-0.1374	0.4203	-0.1577	0.4825
19	147.16	0.8633	-0.1382	0.4145	-0.1601	0.4802

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1 MARTIN MISSILE TAIL EFFECTS DATA
SHEET 1 OF 1 SPLITTER PLATE DATA

TEST PART MALM BALW=6 CONF TRANSITION
2 189 0.80 2.5 F11 FREE

POINT	ALPHA	CNF	CM	CA	XCPF	YCPF
1	148.01	0.6411	-0.1361	0.4065	-0.1618	0.4833
2	149.04	0.6671	-0.1358	0.4010	-0.1662	0.4847
3	150.04	0.6987	-0.1335	0.3911	-0.1652	0.4836
4	151.04	0.7096	-0.1308	0.3833	-0.1656	0.4855
5	152.04	0.7095	-0.1293	0.3703	-0.1680	0.4812
6	153.04	0.7053	-0.1272	0.3635	-0.1684	0.4813
7	154.04	0.7383	-0.1256	0.3551	-0.1699	0.4809
8	156.09	0.7233	-0.1225	0.3513	-0.1693	0.4657
9	158.10	0.7339	-0.1272	0.3534	-0.1734	0.4816
10	160.10	0.7386	-0.1496	0.3600	-0.1971	0.4875
11	162.10	0.6786	-0.1507	0.3392	-0.2221	0.4998
12	164.09	0.5786	-0.1425	0.2962	-0.2465	0.5098
13	166.10	0.5011	-0.1369	0.2583	-0.2732	0.5124
14	168.11	0.4264	-0.1299	0.2153	-0.3032	0.5026
15	170.10	0.3477	-0.1155	0.1733	-0.3322	0.4982
16	172.10	0.2677	-0.0964	0.1240	-0.3525	0.4779
17	174.12	0.1964	-0.0720	0.0863	-0.3783	0.4531
18	176.12	0.1421	-0.0475	0.0529	-0.3694	0.4338
19	177.11	0.0941	-0.0368	0.0413	-0.3913	0.4386

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL (4T)
PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH NX10-6 CONF TRANSITION
2 190 0.80 2.5 F11 FREE

POINT	ALPHA	CNF	CM	CB	XCPF	YCPF
1	178.00	0.0739	-0.0246	0.0274	-0.3422	0.3709
2	178.97	0.0504	-0.0184	0.0126	-0.3752	0.2506
3	179.97	0.0235	-0.0081	0.0019	-0.3451	0.0764
4	181.02	-0.0026	0.0026	-0.0115	-0.9776	4.1372
5	182.04	-0.0315	0.0153	-0.0202	-0.4854	0.6393
6	182.99	-0.0556	0.0252	-0.0246	-0.4510	0.5287
7	184.01	-0.0820	0.0358	-0.0439	-0.4365	0.5357
8	184.01	-0.1414	0.0572	-0.0746	-0.4031	0.5254

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH RX10-6 CONF TRANSITION
2 194 0.85 2.5 F11 FREE

POINT	ALPHA	CNF	Cm	Cn	XCPF	YCPF
1	-2.04	-0.0433	-0.0198	-0.0267	0.4583	0.6169
2	-0.96	-0.0143	-0.0116	-0.0176	0.8206	1.2294
3	0.04	0.0092	-0.0051	-0.0058	-0.5560	-0.8281
4	1.05	0.0313	0.0038	0.0062	0.1215	0.1966
5	2.06	0.0558	0.0113	0.0205	0.2023	0.3679
6	3.07	0.0806	0.0194	0.0321	0.2460	0.3973
7	4.07	0.1104	0.0288	0.0437	0.2581	0.3945
8	6.06	0.1753	0.0456	0.0780	0.2568	0.4484
9	8.10	0.2496	0.0826	0.1212	0.2511	0.4863
10	10.12	0.3292	0.0792	0.1652	0.2406	0.5018
11	12.15	0.4196	0.0918	0.2123	0.2188	0.5058
12	14.15	0.4851	0.0754	0.2422	0.1554	0.4991
13	16.16	0.5047	0.0562	0.2796	0.1162	0.4907
14	18.16	0.6567	0.0592	0.3250	0.0901	0.4949
15	20.20	0.7289	0.0512	0.3511	0.0702	0.4817
16	22.21	0.7668	0.0474	0.3691	0.0618	0.4813
17	24.22	0.7792	0.0439	0.3786	0.0552	0.4859
18	26.22	0.8002	0.0410	0.3876	0.0512	0.4844
19	27.24	0.8074	0.0410	0.3918	0.0507	0.4858

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH REIG-6 CONF TRANSITION
2 195 0.85 2.5 F11 FREE

POINT	ALPHA	CNF	CM	CD	XCPF	YCPF
1	28.09	0.8451	0.0385	0.3881	0.0478	0.4820
2	29.16	0.8164	0.0371	0.3737	0.0454	0.4820
3	30.15	0.8316	0.0370	0.3797	0.0445	0.4809
4	31.16	0.8440	0.0367	0.4053	0.0435	0.4801
5	32.17	0.8497	0.0372	0.4100	0.0437	0.4825
6	33.16	0.8565	0.0349	0.4101	0.0407	0.4788
7	34.17	0.8671	0.0352	0.4199	0.0407	0.4843
8	36.18	0.8942	0.0301	0.4286	0.0337	0.4793
9	38.18	0.9167	0.0292	0.4422	0.0319	0.4826
10	40.19	0.9430	0.0275	0.4540	0.0291	0.4815
11	42.20	0.9746	0.0230	0.4683	0.0236	0.4805
12	44.21	1.0016	0.0215	0.4848	0.0215	0.4840
13	46.22	1.0322	0.0182	0.4995	0.0176	0.4839
14	48.23	1.0672	0.0150	0.5180	0.0140	0.4854
15	50.23	1.0956	0.0120	0.5303	0.0110	0.4886
16	52.24	1.1097	0.0083	0.5421	0.0075	0.4886
17	54.25	1.1313	0.0045	0.5503	0.0040	0.4906
18	56.26	1.1516	0.0031	0.5557	0.0027	0.4911
19	57.26	1.1363	0.0019	0.5592	0.0017	0.4930

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST	PART	MACH	RN/FT-6	CONF	TRANSITION
2	198	0.65	2.5	F11	FREE

POINT	ALPHA	CNF	CM	CA	XCPF	YCPF
1	58.11	1.0963	0.0032	0.5407	0.0029	0.4932
2	59.17	1.0937	0.0003	0.5365	0.0003	0.4905
3	60.17	1.1003	-0.0016	0.5424	-0.0014	0.4930
4	61.18	1.0965	-0.0027	0.5424	-0.0020	0.4946
5	62.18	1.0972	-0.0025	0.5442	-0.0023	0.4960
6	63.17	1.1103	-0.0071	0.5477	-0.0064	0.4932
7	64.18	1.1076	-0.0082	0.5512	-0.0074	0.4977
8	65.18	1.1094	-0.0117	0.5510	-0.0105	0.4967
9	68.19	1.1256	-0.0146	0.5540	-0.0130	0.5013
10	70.19	1.1386	-0.0198	0.5690	-0.0174	0.4997
11	72.20	1.1556	-0.0234	0.5810	-0.0202	0.5027
12	74.21	1.1721	-0.0285	0.5940	-0.0243	0.5067
13	76.21	1.1841	-0.0333	0.5987	-0.0281	0.5056
14	78.22	1.2047	-0.0385	0.6133	-0.0323	0.5091
15	80.23	1.2033	-0.0424	0.6150	-0.0352	0.5111
16	82.23	1.2040	-0.0473	0.6174	-0.0393	0.5127
17	84.24	1.2096	-0.0513	0.6253	-0.0424	0.5170
18	86.24	1.2107	-0.0562	0.6298	-0.0464	0.5202
19	87.24	1.2063	-0.0577	0.6287	-0.0479	0.5211

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH RA10=0 CONF TRANSITION
2 197 0.65 2.5 F11 FREE

POINT	ALPHA	CNF	Cm	Cn	ACPF	YCPF
1	90.15	1.1715	-0.0869	0.6049	-0.0567	0.5160
2	91.15	1.1717	-0.0892	0.6107	-0.0591	0.5212
3	92.15	1.1715	-0.0736	0.6068	-0.0626	0.5180
4	93.15	1.1726	-0.0760	0.6061	-0.0665	0.5168
5	94.15	1.1655	-0.0793	0.6043	-0.0680	0.5187
6	96.16	1.1756	-0.0860	0.6075	-0.0731	0.5167
7	95.16	1.1606	-0.0859	0.6028	-0.0761	0.5155
8	100.16	1.1950	-0.0991	0.6086	-0.0829	0.5093
9	102.17	1.1911	-0.1005	0.6062	-0.0847	0.5089
10	104.18	1.1883	-0.1071	0.6049	-0.0893	0.5048
11	106.18	1.1931	-0.1078	0.6077	-0.0904	0.5098
12	108.18	1.1895	-0.1136	0.5986	-0.0955	0.5032
13	110.19	1.1809	-0.1157	0.5971	-0.0960	0.5057
14	112.20	1.1744	-0.1179	0.5941	-0.1004	0.5059
15	114.19	1.1679	-0.1213	0.5873	-0.1039	0.5029
16	115.31	1.1691	-0.1242	0.5878	-0.1063	0.5028
17	117.20	1.1511	-0.1267	0.5745	-0.1084	0.4998

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH REX10-6 CONE TRANSITION
2 198 0.65 2.5 F11 FREE

POINT	ALPHA	CNF	CM	CB	XCPF	YCPF
1	120.06	1.1106	-0.1250	0.5565	-0.1125	0.4957
2	121.11	1.1143	-0.1280	0.5491	-0.1149	0.4928
3	122.11	1.1063	-0.1291	0.5473	-0.1167	0.4947
4	123.12	1.1066	-0.1307	0.5477	-0.1182	0.4952
5	124.12	1.1092	-0.1310	0.5507	-0.1181	0.4965
6	125.12	1.1059	-0.1353	0.5449	-0.1224	0.4927
7	128.13	1.0936	-0.1365	0.5371	-0.1251	0.4911
8	130.13	1.0866	-0.1384	0.5300	-0.1278	0.4879
9	132.13	1.0863	-0.1411	0.5183	-0.1321	0.4852
10	134.14	1.0825	-0.1402	0.5071	-0.1345	0.4864
11	136.11	1.0180	-0.1406	0.4968	-0.1381	0.4861
12	138.10	0.9854	-0.1400	0.4780	-0.1420	0.4849
13	140.10	0.9596	-0.1367	0.4651	-0.1447	0.4850
14	142.11	0.9360	-0.1386	0.4553	-0.1483	0.4864
15	144.14	0.9130	-0.1371	0.4422	-0.1501	0.4844
16	146.13	0.8946	-0.1397	0.4293	-0.1561	0.4799
17	147.14	0.8869	-0.1390	0.4250	-0.1571	0.4803

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH PX10-6 CONF TRANSITION
2 199 0.65 2.5 F11 FREE

POINT	ALPHA	CNF	CM	CA	XCPF	YCPF
1	148.02	0.8617	-0.1391	0.4126	-0.1614	0.4789
2	149.04	0.8472	-0.1380	0.4069	-0.1628	0.4803
3	149.60	0.8373	-0.1371	0.3962	-0.1638	0.4755
4	150.08	0.8283	-0.1371	0.3928	-0.1656	0.4742
5	151.09	0.8095	-0.1396	0.3845	-0.1662	0.4747
6	152.10	0.7888	-0.1320	0.3769	-0.1673	0.4778
7	153.05	0.7726	-0.1249	0.3695	-0.1681	0.4782
8	154.09	0.7654	-0.1299	0.3635	-0.1697	0.4749
9	156.10	0.7424	-0.1279	0.3524	-0.1722	0.4743
10	158.06	0.7365	-0.1290	0.3521	-0.1751	0.4780
11	160.10	0.7377	-0.1426	0.3522	-0.1933	0.4775
12	162.10	0.6776	-0.1429	0.3298	-0.2108	0.4666
13	164.09	0.5937	-0.1393	0.2888	-0.2387	0.4948
14	166.10	0.5066	-0.1367	0.2505	-0.2686	0.4922
15	168.09	0.4291	-0.1315	0.2103	-0.3065	0.4981
16	170.10	0.3602	-0.1277	0.1709	-0.3547	0.4744
17	172.10	0.2715	-0.0945	0.1238	-0.3666	0.4531
18	174.11	0.1954	-0.0758	0.0813	-0.3872	0.4152
19	176.11	0.1305	-0.0522	0.0449	-0.4004	0.3824
20	177.11	0.0992	-0.0397	0.0340	-0.4004	0.3431

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH REIN-6 CONF TRANSITION
2 200 0.65 2.5 F11 FREE

POINT	ALPHA	CNF	CM	CD	ACPF	YCPF
1	178.00	0.0741	-0.0265	0.0225	-0.3851	0.3044
2	178.98	0.0474	-0.0169	0.0114	-0.3572	0.2402
3	180.00	0.0235	-0.0094	-0.0006	-0.3562	-0.0260
4	181.00	-0.0020	0.0023	-0.0145	-1.1130	7.1330
5	182.00	-0.0240	0.0101	-0.0268	-0.4470	0.9249
6	183.03	-0.0567	0.0205	-0.0373	-0.4672	0.6591
7	184.00	-0.0834	0.0373	-0.0512	-0.4439	0.6095
8	186.02	-0.1463	0.0595	-0.0833	-0.4071	0.5697

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH MA10-5 CONF TRANSITION
2 201 0.92 2.5 FIX FREE

POINT	ALPHA	CNF	CM	CN	ACPF	YCPF
1	-2.04	-0.0420	-0.0245	-0.0298	0.5921	0.7106
2	-0.00	-0.0146	-0.0140	-0.0177	0.9587	1.2169
3	0.04	0.0096	-0.0026	-0.0047	-0.5491	-0.5249
4	1.05	0.0391	0.0024	0.0046	0.0659	0.1164
5	1.97	0.0628	0.0102	0.0188	0.1621	0.2672
6	3.00	0.0914	0.0210	0.0332	0.2301	0.3632
7	4.04	0.1166	0.0325	0.0491	0.2826	0.4226
8	6.06	0.1675	0.0495	0.0839	0.2640	0.4475
9	8.10	0.2036	0.0683	0.1250	0.2590	0.4743
10	10.12	0.3505	0.0813	0.1732	0.2293	0.4886
11	12.15	0.4455	0.0947	0.2250	0.2125	0.5058
12	14.17	0.5384	0.1023	0.2737	0.1498	0.5078
13	16.19	0.6413	0.1063	0.3183	0.1052	0.5010
14	18.19	0.6512	0.0667	0.3309	0.0979	0.4916
15	20.21	0.7458	0.0479	0.3593	0.0642	0.4818
16	22.22	0.8090	0.0414	0.3979	0.0512	0.4795
17	24.24	0.8695	0.0424	0.4177	0.0487	0.4804
18	26.25	0.8933	0.0377	0.4284	0.0422	0.4773
19	27.25	0.8905	0.0381	0.4286	0.0435	0.4791

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA
-- SPLITTER PLATE DATA

TEST PART MACH RX10-6 CONF. TRANSITION
2 202 0.62 2.5 F11 FREE

POINT	ALPHA	CNP	CM	CN	XCPF	YCPF
1	28.11	0.8976	0.0353	0.4277	0.0396	0.4766
2	29.18	0.8955	0.0346	0.4236	0.0389	0.4733
3	30.17	0.8933	0.0317	0.4262	0.0355	0.4772
4	31.18	0.8970	0.0312	0.4258	0.0348	0.4747
5	32.18	0.9022	0.0295	0.4288	0.0327	0.4752
6	33.19	0.9121	0.0310	0.4368	0.0340	0.4789
7	34.19	0.9264	0.0296	0.4405	0.0320	0.4755
8	36.20	0.9383	0.0266	0.4437	0.0283	0.4728
9	38.20	0.9568	0.0249	0.4577	0.0259	0.4773
10	40.20	0.9930	0.0204	0.4764	0.0205	0.4797
11	42.21	1.0134	0.0203	0.4855	0.0208	0.4791
12	44.22	1.0446	0.0157	0.4985	0.0150	0.4772
13	46.24	1.0716	0.0111	1.5233	0.0102	0.4796
14	47.35	1.1024	0.0110	0.5286	0.0100	0.4795
15	50.25	1.1385	0.0063	0.5469	0.0056	0.4822
16	52.26	1.1486	0.0036	0.5575	0.0031	0.4852
17	54.27	1.1493	0.0016	0.5553	0.0014	0.4832
18	56.29	1.1477	-0.0012	0.5572	-0.0010	0.4855
19	57.29	1.1441	-0.0009	0.5547	-0.0008	0.4849

MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH RUN-6 CONF TRANSITION
2 203 0.92 2.5 F11 FREE

POINT	ALPHA	CNF	CM	CS	XCPF	YCPF
1	58.11	1.0866	-0.3002	0.5284	-0.0002	0.4849
2	59.17	1.0880	-0.0024	0.5300	-0.0022	0.4871
3	59.64	1.0879	-0.0031	0.5333	-0.0029	0.4902
4	60.17	1.0886	-0.0024	0.5337	-0.0022	0.4910
5	60.74	1.0916	-0.0054	0.5365	-0.0049	0.4914
6	61.16	1.0923	-0.0061	0.5355	-0.0056	0.4902
7	62.19	1.1025	-0.0091	0.5440	-0.0083	0.4896
8	63.16	1.1070	-0.0100	0.5436	-0.0091	0.4935
9	64.16	1.1093	-0.0124	0.5477	-0.0112	0.4937
10	66.20	1.1246	-0.0160	0.5566	-0.0142	0.4948
11	68.20	1.1323	-0.0183	0.5653	-0.0162	0.4997
12	70.21	1.1613	-0.0246	0.5772	-0.0212	0.4978
13	72.21	1.1693	-0.0270	0.5768	-0.0235	0.5039
14	74.22	1.2029	-0.0346	0.6010	-0.0288	0.4996
15	76.23	1.2093	-0.0373	0.6109	-0.0309	0.5052
16	78.23	1.2213	-0.0413	0.6149	-0.0338	0.5068
17	80.24	1.2264	-0.0453	0.6242	-0.0369	0.5082
18	82.25	1.2332	-0.0499	0.6282	-0.0405	0.5094
19	84.26	1.2421	-0.0534	0.6437	-0.0433	0.5144
20	86.26	1.2386	-0.0589	0.6370	-0.0476	0.5152
21	87.27	1.2374	-0.0623	0.6370	-0.0503	0.5144

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST	PART	MACH	PX10-6	CONF	TRANSITION
2	204	0.92	2.5	F11	FREE

POINT	ALPHA	CNF	CM	CA	XCPF	YCPF
1	88.10	1.1982	-0.0818	0.6167	-0.0514	0.5164
2	90.12	1.1851	-0.0874	0.6149	-0.0569	0.5189
3	91.09	1.1843	-0.0769	0.6145	-0.0598	0.5189
4	92.13	1.1879	-0.0772	0.6130	-0.0650	0.5168
5	93.13	1.1886	-0.0798	0.6144	-0.0672	0.5169
6	94.14	1.1915	-0.0839	0.6140	-0.0704	0.5153
7	96.16	1.1965	-0.0886	0.6137	-0.0760	0.5128
8	98.15	1.2143	-0.0955	0.6178	-0.0786	0.5088
9	100.13	1.2104	-0.0978	0.6124	-0.0838	0.5060
10	102.14	1.2110	-0.1020	0.6119	-0.0842	0.5053
11	104.17	1.2162	-0.1068	0.6112	-0.0876	0.5017
12	106.16	1.2133	-0.1111	0.6069	-0.0916	0.5002
13	108.16	1.2136	-0.1150	0.6022	-0.0953	0.4962
14	110.14	1.2032	-0.1183	0.6005	-0.0983	0.4993
15	112.19	1.1906	-0.1204	0.5989	-0.1012	0.4965
16	114.19	1.1731	-0.1216	0.5845	-0.1036	0.4982
17	116.20	1.1647	-0.1249	0.5755	-0.1068	0.4941
18	117.19	1.1607	-0.1246	0.5712	-0.1073	0.4922

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1 MARTIN MISSILE TAIL EFFECTS DATA
SHEET 1 OF 1 SPLITTER PLATE DATA

TEST PART MACH RN/D=6 CONF TRANSITION
2 ZOM 0.60 2.5 F36 FREE

POINT	ALPHA	CNF	CM	Cm	XCPF	YCPF
1	-2.03	-0.0276	0.0003	-0.0076	-0.0099	0.2758
2	-0.98	-0.0150	-0.0000	-0.0014	0.0007	0.0929
3	0.02	-0.0045	-0.0000	0.0042	0.0089	-0.9356
4	1.04	0.0061	-0.0001	0.0106	-0.0164	1.7459
5	2.04	0.0176	-0.0003	0.0148	-0.0190	0.8282
6	3.05	0.0276	-0.0002	0.0230	-0.0084	0.9393
7	4.05	0.0456	-0.0012	0.0298	-0.0275	0.6616
8	6.07	0.0863	-0.0026	0.0453	-0.0307	0.5378
9	8.07	0.1297	-0.0038	0.0593	-0.0295	0.4573
10	10.09	0.1761	-0.0046	0.0721	-0.0260	0.4049
11	12.12	0.2361	-0.0065	0.0895	-0.0277	0.3788
12	14.14	0.2948	-0.0072	0.1058	-0.0265	0.3589
13	16.15	0.3593	-0.0075	0.1203	-0.0218	0.3366
14	18.17	0.4206	-0.0075	0.1377	-0.0179	0.3274
15	20.20	0.4884	-0.0072	0.1553	-0.0148	0.3207
16	22.22	0.5477	-0.0073	0.1752	-0.0133	0.3198
17	24.24	0.6096	-0.0070	0.1935	-0.0114	0.3173
18	26.26	0.6766	-0.0067	0.2082	-0.0100	0.3087
19	27.28	0.7062	-0.0059	0.2185	-0.0084	0.3096

ARNOLD ENGINEERING DEVELOPMENT CENTER (AEDC) PROPULSION WIND TUNNEL FACILITY (PWT) AERODYNAMIC WIND TUNNEL (4T)
PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH RX10-6 CONF TRANSITION
2 209 0.80 2.5 F3B FREE

POINT	ALPHA	CNF	CM	CN	XCPF	YCPF
4	28.18	0.7366	-0.0037	0.2232	-0.0050	0.3038
5	29.19	0.7625	-0.0029	0.2309	-0.0038	0.3028
6	30.20	0.7906	-0.0019	0.2380	-0.0024	0.3010
7	31.24	0.8151	-0.0008	0.2453	-0.0009	0.3010
8	32.26	0.8444	0.0002	0.2517	0.0003	0.2981
9	33.27	0.8702	0.0016	0.2577	0.0019	0.2961
10	34.27	0.8976	0.0029	0.2632	0.0032	0.2936
11	36.30	0.9326	0.0094	0.2700	0.0101	0.2895
12	38.30	0.9491	0.0274	0.2673	0.0305	0.2751
13	40.30	0.8861	0.0261	0.2511	0.0295	0.2834
14	42.31	0.9286	0.0247	0.2650	0.0256	0.2854
15	44.33	0.9533	0.0254	0.2728	0.0267	0.2862
16	46.34	0.9716	0.0249	0.2727	0.0256	0.2909
17	48.31	0.9576	-0.0019	0.2957	-0.0019	0.3087
18	50.32	0.9761	-0.0091	0.3021	-0.0096	0.3116
19	52.32	0.9834	-0.0124	0.3091	-0.0127	0.3143
20	54.33	0.9927	-0.0142	0.3173	-0.0143	0.3181
21	56.35	1.0206	-0.0164	0.3254	-0.0165	0.3189
22	57.34	1.0285	-0.0180	0.3292	-0.0175	0.3201

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) - PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH RX10-6 CONF TRANSITION
2 210 0.60 2.5 F36 FREE

POINT	ALPHA	CNF	Cm	Cd	XCPF	YCPF
1	58.24	1.0053	-0.0143	0.3224	-0.0182	0.3207
2	59.24	1.0173	-0.0213	0.3273	-0.0209	0.3217
3	60.23	1.0424	-0.0226	0.3306	-0.0221	0.3233
4	61.24	1.0453	-0.0242	0.3320	-0.0236	0.3238
5	62.26	1.0286	-0.0255	0.3340	-0.0248	0.3247
6	63.24	1.0496	-0.0267	0.3361	-0.0259	0.3265
7	64.25	1.0402	-0.0282	0.3363	-0.0273	0.3264
8	64.75	1.0387	-0.0311	0.3403	-0.0300	0.3283
9	65.25	1.0390	-0.0329	0.3426	-0.0317	0.3297
10	70.26	1.0380	-0.0343	0.3442	-0.0331	0.3316
11	72.26	1.0387	-0.0356	0.3480	-0.0343	0.3331
12	74.26	1.0356	-0.0367	0.3467	-0.0374	0.3348
13	76.27	1.0416	-0.0411	0.3514	-0.0345	0.3375
14	78.26	1.0504	-0.0443	0.3556	-0.0422	0.3387
15	80.27	1.0577	-0.0475	0.3599	-0.0449	0.3403
16	82.27	1.0644	-0.0513	0.3649	-0.0482	0.3425
17	84.28	1.0654	-0.0552	0.3679	-0.0517	0.3448
18	86.28	1.0697	-0.0586	0.3691	-0.0548	0.3451
19	87.28	1.0746	-0.0611	0.3710	-0.0568	0.3453

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH NX10-6 CONF TRANSITION
2 211 0.60 2.5 F36 FREE

POINT	ALPHA	CNF	CM	CN	XCPF	YCPF
1	88.13	1.0286	-0.0587	0.3575	-0.0570	0.3675
2	89.14	1.0222	-0.0604	0.3549	-0.0595	0.3472
3	90.16	1.0189	-0.0632	0.3559	-0.0620	0.3493
4	91.17	1.0137	-0.0656	0.3544	-0.0649	0.3496
5	92.17	1.0040	-0.0679	0.3504	-0.0673	0.3516
6	93.16	1.0002	-0.0703	0.3541	-0.0703	0.3540
7	94.16	0.9972	-0.0726	0.3526	-0.0740	0.3536
8	96.16	0.9870	-0.0760	0.3532	-0.0790	0.3578
9	98.15	0.9835	-0.0828	0.3542	-0.0862	0.3608
10	100.16	0.9780	-0.0872	0.3557	-0.0991	0.3637
11	102.16	0.9825	-0.0936	0.3560	-0.0952	0.3623
12	104.15	0.9796	-0.0980	0.3565	-0.1001	0.3639
13	106.15	0.9735	-0.1021	0.3576	-0.1069	0.3674
14	108.15	0.9681	-0.1069	0.3551	-0.1101	0.3668
15	110.15	0.9715	-0.1115	0.3589	-0.1147	0.3693
16	112.15	0.9702	-0.1156	0.3577	-0.1192	0.3687
17	114.15	0.9645	-0.1190	0.3567	-0.1233	0.3676
18	116.17	0.9523	-0.1212	0.3524	-0.1273	0.3701
19	117.16	0.9461	-0.1220	0.3505	-0.1269	0.3704

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST	PART	MACH	PRESS	CONF	TRANSITION
2	212	0.80	2.5	F36	FREE

POINT	ALPHA	CNF	CM	CA	XCPF	YCPF
1	118.06	0.8436	-0.1147	0.3363	-0.1315	0.3701
2	119.06	0.8463	-0.1193	0.3322	-0.1334	0.3715
3	120.05	0.8465	-0.1210	0.3329	-0.1350	0.3714
4	121.06	0.8492	-0.1229	0.3335	-0.1367	0.3708
5	122.06	0.8496	-0.1257	0.3306	-0.1383	0.3698
6	123.05	0.8452	-0.1255	0.3319	-0.1402	0.3708
7	124.05	0.8485	-0.1256	0.3283	-0.1416	0.3695
8	126.06	0.8791	-0.1277	0.3253	-0.1453	0.3701
9	128.05	0.8784	-0.1307	0.3243	-0.1491	0.3698
10	130.05	0.8885	-0.1326	0.3217	-0.1527	0.3704
11	132.06	0.8898	-0.1356	0.3215	-0.1561	0.3696
12	134.06	0.8846	-0.1374	0.3221	-0.1595	0.3726
13	135.17	0.8845	-0.1403	0.3211	-0.1623	0.3714
14	138.05	0.8870	-0.1492	0.3237	-0.1741	0.3777
15	139.16	0.8822	-0.1503	0.3291	-0.1812	0.3817
16	142.06	0.8415	-0.1619	0.3261	-0.1924	0.3899
17	144.04	0.8136	-0.1676	0.3259	-0.2059	0.4004
18	146.04	0.7907	-0.1716	0.3219	-0.2171	0.4071
19	147.05	0.7741	-0.1711	0.3167	-0.2210	0.4092

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
HANTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH RX10-6 CONF TRANSITION
2 213 0.60 2.5 F36 FREE

POINT	ALPHA	CNF	CM	CA	XCPF	YCPF
1	147.91	0.7657	-0.1648	0.3133	-0.2218	0.4091
2	148.95	0.7495	-0.1679	0.3067	-0.2239	0.4092
3	149.96	0.7222	-0.1634	0.2970	-0.2262	0.4112
4	150.97	0.6983	-0.1590	0.2855	-0.2277	0.4089
5	151.97	0.6674	-0.1533	0.2712	-0.2296	0.4061
6	152.98	0.6380	-0.1480	0.2618	-0.2320	0.4103
7	153.97	0.6104	-0.1430	0.2509	-0.2342	0.4111
8	154.99	0.5819	-0.1321	0.2272	-0.2394	0.4117
9	156.00	0.5511	-0.1248	0.2144	-0.2459	0.4161
10	159.99	0.4337	-0.1098	0.1815	-0.2532	0.4184
11	162.00	0.3763	-0.0987	0.1588	-0.2623	0.4228
12	164.01	0.3211	-0.0878	0.1376	-0.2733	0.4284
13	166.02	0.2660	-0.0767	0.1162	-0.2884	0.4337
14	168.03	0.2187	-0.0662	0.0957	-0.3026	0.4376
15	170.04	0.1726	-0.0550	0.0762	-0.3183	0.4411
16	172.06	0.1315	-0.0440	0.0587	-0.3348	0.4464
17	173.16	0.1083	-0.0377	0.0477	-0.3468	0.4483
18	176.10	0.0574	-0.0221	0.0261	-0.3857	0.4549
19	177.09	0.0401	-0.0170	0.0216	-0.4229	0.5335

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART PALM PX10-6 CONF TRANSITION
2 214 0.80 2.5 F36 FREE

POINT	ALPHA	CNF	CM	CA	XCPF	YCPF
1	178.00	0.0285	-0.0123	0.0168	-0.4314	0.5613
2	179.00	0.0178	-0.0060	0.0116	-0.4494	0.6502
3	180.01	0.0069	-0.0038	0.0072	-0.5535	1.0376
4	180.99	-0.0034	0.0000	0.0035	-0.0129	-0.9072
5	182.02	-0.0113	0.0035	-0.0009	-0.3086	0.0794
6	183.01	-0.0213	0.0074	-0.0050	-0.3469	0.2362
7	184.01	-0.0315	0.0115	-0.0097	-0.3610	0.3030
8	186.03	-0.0504	0.0215	-0.0204	-0.3594	0.3370

ARNOLD ENGINEERING DEVELOPMENT CENTER (AEDC) PROPULSION WIND TUNNEL FACILITY (PWT) AERODYNAMIC WIND TUNNEL (4T)
PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH RA10-6 CONE TRANSITION
2 P15 0.65 2.5 F36 FREE

POINT	ALPHA	CNF	CM	CA	XCPF	YCPF
1	-2.03	-0.0306	0.0001	-0.0124	-0.0026	0.4206
2	-0.97	-0.0157	-0.0002	-0.0068	0.0147	0.4343
3	0.02	-0.0064	-0.0003	-0.0001	0.0516	0.0110
4	1.04	0.0042	-0.0004	0.0059	-0.0931	1.4057
5	2.04	0.0154	-0.0006	0.0101	-0.0423	0.6547
6	3.04	0.0260	-0.0007	0.0164	-0.0273	0.6284
7	4.05	0.0395	-0.0012	0.0220	-0.0301	0.5524
8	6.07	0.0603	-0.0022	0.0374	-0.0394	0.4701
9	8.07	0.1027	-0.0043	0.0562	-0.0349	0.4618
10	10.10	0.1706	-0.0052	0.0869	-0.0306	0.3921
11	12.11	0.2636	-0.0066	0.0836	-0.0295	0.3731
12	14.13	0.2655	-0.0083	0.0978	-0.0292	0.3426
13	16.15	0.3453	-0.0092	0.1132	-0.0266	0.3279
14	18.18	0.4124	-0.0092	0.1317	-0.0223	0.3195
15	20.20	0.4784	-0.0090	0.1495	-0.0190	0.3147
16	22.22	0.5382	-0.0093	0.1682	-0.0173	0.3125
17	24.25	0.6003	-0.0093	0.1877	-0.0155	0.3128
18	26.29	0.6616	-0.0092	0.2060	-0.0139	0.3084
19	27.29	0.6966	-0.0089	0.2117	-0.0127	0.3060

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH RX10-6 CONF TRANSITION
2 217 0.60 2.5 F36 FREE

POINT	ALPHA	CNF	CM	C-	ΔCPF	YCPF
1	28.19	0.7116	-0.0071	0.2151	-0.0100	0.3022
2	29.20	0.7426	-0.0065	0.2237	-0.0087	0.3013
3	30.24	0.7736	-0.0059	0.2296	-0.0076	0.2969
4	31.26	0.8006	-0.0056	0.2374	-0.0063	0.2965
5	32.26	0.8274	-0.0041	0.2439	-0.0050	0.2947
6	33.27	0.8561	-0.0030	0.2508	-0.0035	0.2923
7	34.28	0.8826	-0.0012	0.2575	-0.0016	0.2917
8	36.30	0.9263	0.0030	0.2664	0.0033	0.2876
9	38.32	0.9231	0.0178	0.2570	0.0193	0.2784
10	40.31	0.8797	0.0263	0.2431	0.0276	0.2764
11	42.34	0.9242	0.0221	0.2605	0.0239	0.2819
12	44.35	0.9563	0.0224	0.2703	0.0234	0.2827
13	46.36	0.9646	0.0232	0.2756	0.0240	0.2857
14	48.33	0.9577	-0.0019	0.2916	-0.0020	0.3044
15	50.33	0.9842	-0.0069	0.2976	-0.0092	0.3074
16	52.35	0.9850	-0.0131	0.3071	-0.0133	0.3118
17	54.35	1.0072	-0.0153	0.3151	-0.0152	0.3129
18	56.37	1.0283	-0.0174	0.3249	-0.0169	0.3160
19	57.37	1.0389	-0.0185	0.3286	-0.0178	0.3163

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH PALO=5 CONF TRANSITION
2 21A 0.85 2.5 F3a FREE

POINT	ALPHA	CNF	CM	CM	XCPF	YCPF
1	58.24	1.0165	-0.0197	0.3241	-0.0194	0.3188
2	59.25	1.0263	-0.0211	0.3272	-0.0206	0.3188
3	60.26	1.0311	-0.0225	0.3300	-0.0218	0.3200
4	61.26	1.0326	-0.0237	0.3314	-0.0229	0.3210
5	62.26	1.0376	-0.0248	0.3347	-0.0239	0.3225
6	63.26	1.0418	-0.0262	0.3361	-0.0252	0.3226
7	64.25	1.0451	-0.0275	0.3387	-0.0263	0.3241
8	66.27	1.0496	-0.0305	0.3405	-0.0291	0.3253
9	68.27	1.0506	-0.0325	0.3428	-0.0312	0.3262
10	70.26	1.0536	-0.0341	0.3465	-0.0324	0.3289
11	71.39	1.0552	-0.0353	0.3489	-0.0335	0.3306
12	74.26	1.0602	-0.0367	0.3516	-0.0365	0.3316
13	76.26	1.0567	-0.0406	0.3523	-0.0386	0.3360
14	78.28	1.0690	-0.0441	0.3589	-0.0412	0.3357
15	80.29	1.0771	-0.0473	0.3625	-0.0439	0.3365
16	82.29	1.0858	-0.0509	0.3675	-0.0469	0.3384
17	84.30	1.0901	-0.0557	0.3715	-0.0511	0.3408
18	86.31	1.0963	-0.0596	0.3760	-0.0543	0.3430
19	87.30	1.0939	-0.0610	0.3764	-0.0558	0.3441

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH RX10-6 CONF TRANSITION
2 219 0.89 2.5 F36 FREE

POINT	ALPHA	CNF	CM	CH	*XCPF	YCPF
1	88.14	1.0454	-0.0598	0.4022	-0.0570	0.3651
2	89.15	1.0478	-0.0615	0.3603	-0.0589	0.3456
3	90.17	1.0500	-0.0634	0.3617	-0.0614	0.3478
4	91.17	1.0294	-0.0658	0.3546	-0.0639	0.3493
5	92.17	1.0282	-0.0656	0.3603	-0.0667	0.3504
6	93.17	1.0191	-0.0715	0.3575	-0.0701	0.3508
7	94.17	1.0195	-0.0740	0.3617	-0.0725	0.3537
8	96.17	1.0067	-0.0794	0.3587	-0.0789	0.3563
9	98.17	0.9990	-0.0836	0.3596	-0.0837	0.3589
10	100.17	0.9999	-0.0861	0.3620	-0.0881	0.3620
11	102.17	0.9942	-0.0962	0.3577	-0.0948	0.3598
12	104.17	0.9963	-0.0968	0.3617	-0.0994	0.3638
13	106.17	0.9896	-0.1032	0.3621	-0.1042	0.3659
14	108.17	0.9862	-0.1082	0.3634	-0.1097	0.3655
15	110.16	0.9847	-0.1123	0.3623	-0.1148	0.3679
16	112.17	0.9894	-0.1170	0.3649	-0.1182	0.3688
17	114.17	0.9836	-0.1211	0.3610	-0.1231	0.3669
18	116.18	0.9885	-0.1228	0.3581	-0.1268	0.3698
19	117.18	0.9837	-0.1239	0.3567	-0.1286	0.3701

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH RE/10-6 CONF TRANSITION
2 220 0.65 2.5 F36 FREE

POINT	ALPHA	CNF	Cm	Cb	XCPF	YCPF
1	118.01	0.9122	-0.1203	0.3387	-0.1319	0.3713
2	119.01	0.9042	-0.1214	0.3367	-0.1336	0.3703
3	120.01	0.9080	-0.1230	0.3349	-0.1355	0.3688
4	121.07	0.9113	-0.1250	0.3355	-0.1371	0.3681
5	122.07	0.9035	-0.1254	0.3325	-0.1388	0.3688
6	123.06	0.8985	-0.1262	0.3306	-0.1405	0.3680
7	124.06	0.8982	-0.1277	0.3284	-0.1422	0.3661
8	126.06	0.8985	-0.1295	0.3275	-0.1458	0.3686
9	128.06	0.8963	-0.1323	0.3266	-0.1493	0.3685
10	130.06	0.8739	-0.1336	0.3218	-0.1529	0.3682
11	132.07	0.8732	-0.1360	0.3229	-0.1559	0.3697
12	134.07	0.8646	-0.1375	0.3202	-0.1590	0.3703
13	136.08	0.8572	-0.1400	0.3161	-0.1634	0.3711
14	138.08	0.8447	-0.1436	0.3159	-0.1700	0.3740
15	140.05	0.8416	-0.1514	0.3182	-0.1799	0.3781
16	142.05	0.8306	-0.1562	0.3179	-0.1880	0.3827
17	144.06	0.8116	-0.1634	0.3217	-0.2012	0.3962
18	146.06	0.7802	-0.1673	0.3152	-0.2144	0.4048
19	147.06	0.7675	-0.1686	0.3127	-0.2196	0.4074

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH RX10-6 CONF TRANSITION
2 221 0.65 2.5 F36 FREE

POINT	ALPHA	CNF	CM	CA	XCPF	YCPF
1	147.90	0.7047	-0.1677	0.3102	-0.2193	0.4057
2	148.97	0.7494	-0.1672	0.3048	-0.2230	0.4064
3	149.96	0.7404	-0.1646	0.2969	-0.2252	0.4063
4	150.97	0.7072	-0.1607	0.2868	-0.2272	0.4055
5	151.97	0.6756	-0.1549	0.2742	-0.2294	0.4061
6	152.98	0.6473	-0.1503	0.2638	-0.2322	0.4076
7	153.96	0.6184	-0.1447	0.2529	-0.2339	0.4090
8	155.94	0.5603	-0.1333	0.2285	-0.2378	0.4079
9	157.99	0.5015	-0.1222	0.2061	-0.2437	0.4109
10	160.00	0.4366	-0.1099	0.1820	-0.2516	0.4166
11	162.01	0.3807	-0.0993	0.1587	-0.2610	0.4178
12	164.02	0.3246	-0.0888	0.1387	-0.2718	0.4246
13	166.03	0.2736	-0.0786	0.1175	-0.2877	0.4302
14	168.04	0.2242	-0.0676	0.0954	-0.3015	0.4255
15	170.04	0.1761	-0.0564	0.0765	-0.3201	0.4343
16	172.07	0.1345	-0.0452	0.0583	-0.3357	0.4338
17	174.08	0.0916	-0.0333	0.0406	-0.3631	0.4423
18	176.09	0.0543	-0.0227	0.0257	-0.3829	0.4331
19	177.10	0.0446	-0.0176	0.0196	-0.3967	0.4327

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH RA10-6 CONF TRANSITION
2 222 0.65 2.5 F36 FREE

POINT	ALPHA	CNF	CM	CD	XCPF	YCPF
1	178.00	0.0306	-0.0122	0.0129	-0.3960	0.4194
2	179.98	0.0187	-0.0060	0.0098	-0.4257	0.5235
3	179.99	0.0185	-0.0060	0.0053	-0.3805	0.5019
4	180.98	-0.0030	0.0003	0.0017	-0.0960	-0.5563
5	182.01	-0.0096	0.0037	-0.0029	-0.3876	0.3057
6	183.03	-0.0203	0.0078	-0.0077	-0.3849	0.3820
7	184.04	-0.0315	0.0121	-0.0126	-0.3853	0.3990
8	186.01	-0.0592	0.0219	-0.0241	-0.3702	0.4067

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1 MARTIN MISSILE TAIL EFFECTS DATA
SHEET 1 OF 1 SPLITTER PLATE DATA

TEST PART MACH PX10-6 CONF TRANSITION
2 223 0.62 2.5 F30 FREE

POINT	ALPHA	CNF	CM	CC	XCPF	YCPF
1	-2.04	-0.0336	-0.0000	-0.0138	0.0003	0.4121
2	-0.97	-0.0172	-0.0003	-0.0063	0.0174	0.4823
3	0.03	-0.0001	-0.0003	-0.0010	0.0322	0.1708
4	1.04	0.0047	-0.0006	0.0029	-0.1298	0.6085
5	2.04	0.0157	-0.0006	0.0076	-0.0540	0.4711
6	3.04	0.0250	-0.0008	0.0103	-0.0316	0.5722
7	4.05	0.0363	-0.0010	0.0142	-0.0270	0.5296
8	6.07	0.0702	-0.0027	0.0359	-0.0368	0.4843
9	8.08	0.1101	-0.0044	0.0499	-0.0369	0.4227
10	10.10	0.1496	-0.0058	0.0637	-0.0366	0.3770
11	12.12	0.2223	-0.0073	0.0797	-0.0330	0.3586
12	14.13	0.2815	-0.0094	0.0949	-0.0333	0.3373
13	16.16	0.3443	-0.0106	0.1114	-0.0328	0.3237
14	18.18	0.4075	-0.0114	0.1293	-0.0279	0.3173
15	20.20	0.4712	-0.0113	0.1467	-0.0239	0.3113
16	22.24	0.5382	-0.0119	0.1658	-0.0220	0.3093
17	24.26	0.5975	-0.0123	0.1848	-0.0206	0.3092
18	26.30	0.6622	-0.0129	0.2043	-0.0195	0.3084
19	27.34	0.6935	-0.0123	0.2120	-0.0177	0.3057

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH RE/10**6 CONF TRANSITION
2 224 0.62 2.5 F36 FREE

POINT	ALPHA	CNP	CM	CD	ACPF	YCPF
1	28.17	0.7271	-0.0102	0.2225	-0.0141	0.3060
2	29.25	0.7446	-0.0087	0.2266	-0.0116	0.3020
3	30.24	0.7656	-0.0067	0.2358	-0.0110	0.2997
4	31.26	0.8153	-0.0060	0.2432	-0.0098	0.2983
5	32.27	0.8446	-0.0069	0.2502	-0.0082	0.2962
6	33.28	0.8727	-0.0060	0.2585	-0.0069	0.2963
7	34.29	0.8937	-0.0040	0.2629	-0.0064	0.2961
8	36.33	0.9366	0.0029	0.2682	0.0031	0.2868
9	38.33	0.9216	0.0164	0.2569	0.0178	0.2788
10	40.34	0.9106	0.0227	0.2540	0.0249	0.2789
11	42.36	0.9371	0.0204	0.2668	0.0218	0.2847
12	44.37	0.9660	0.0203	0.2781	0.0210	0.2879
13	46.36	0.9805	0.0148	0.2858	0.0202	0.2915
14	48.35	0.9566	-0.0006	0.2944	-0.0058	0.3077
15	50.35	0.9721	-0.0134	0.3036	-0.0138	0.3121
16	52.37	0.9942	-0.0156	0.3139	-0.0155	0.3157
17	54.39	1.0206	-0.0171	0.3227	-0.0168	0.3183
18	55.50	1.0364	-0.0185	0.3299	-0.0178	0.3188
19	57.60	1.0541	-0.0205	0.3383	-0.0196	0.3194

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1 MARTIN MISSILE TAIL EFFECTS DATA
SHEET 1 OF 1 SPLITTER PLATE DATA

TEST PART MACH RX10-6 CONF TRANSITION
2 225 0.9< 2.5 F36 FREE

POINT	ALPHA	CNF	CM	CD	XCPF	YCPF
1	58.22	1.0[illegible]	-0.0227	0.3371	-0.0215	0.3197
2	59.29	1.0547	-0.0233	0.3406	-0.0220	0.3214
3	60.29	1.0671	-0.0243	0.3423	-0.0228	0.3208
4	61.29	1.0726	-0.0250	0.3453	-0.0233	0.3219
5	62.29	1.0782	-0.0251	0.3468	-0.0234	0.3247
6	63.29	1.0729	-0.0256	0.3479	-0.0239	0.3242
7	64.31	1.0[illegible]	-0.0269	0.3527	-0.0248	0.3256
8	66.30	1.0840	-0.0249	0.3553	-0.0275	0.3272
9	68.29	1.0803	-0.0335	0.3547	-0.0310	0.3284
10	70.31	1.0874	-0.0340	0.3604	-0.0313	0.3314
11	72.31	1.0941	-0.0373	0.3643	-0.0341	0.3329
12	74.31	1.1030	-0.0403	0.3677	-0.0366	0.3334
13	76.31	1.1115	-0.0425	0.3699	-0.0386	0.3348
14	78.33	1.1120	-0.0454	0.3711	-0.0412	0.3367
15	80.33	1.1172	-0.0484	0.3781	-0.0433	0.3385
16	82.33	1.1183	-0.0524	0.3812	-0.0469	0.3409
17	84.33	1.1206	-0.0571	0.3826	-0.0510	0.3414
18	86.34	1.1237	-0.0613	0.3865	-0.0545	0.3448
19	87.34	1.1255	-0.0635	0.3873	-0.0566	0.3441

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH RX10-6 COND TRANSITION
2 224 0.96 2.5 F36 FREE

POINT	ALPHA	CNF	CM	CD	XCPF	YCPF
1	88.15	1.0273	-0.0625	0.3746	-0.0576	0.3446
2	89.16	1.0782	-0.0660	0.3723	-0.0594	0.3453
3	90.20	1.0764	-0.0667	0.3730	-0.0619	0.3465
4	91.21	1.0724	-0.0681	0.3722	-0.0635	0.3470
5	92.21	1.0641	-0.0699	0.3698	-0.0657	0.3476
6	93.20	1.0586	-0.0717	0.3703	-0.0677	0.3497
7	94.20	1.0538	-0.0749	0.3695	-0.0702	0.3509
8	96.19	1.0413	-0.0779	0.3583	-0.0748	0.3537
9	98.19	1.0287	-0.0825	0.3664	-0.0802	0.3561
10	100.19	1.0300	-0.0881	0.3701	-0.0855	0.3593
11	102.19	1.0261	-0.0936	0.3694	-0.0912	0.3608
12	104.19	1.0188	-0.0989	0.3693	-0.0971	0.3626
13	106.19	1.0202	-0.1036	0.3725	-0.1019	0.3651
14	108.18	1.0155	-0.1094	0.3700	-0.1082	0.3643
15	110.18	1.0132	-0.1144	0.3731	-0.1129	0.3683
16	112.18	1.0129	-0.1185	0.3717	-0.1170	0.3669
17	114.20	1.0064	-0.1225	0.3703	-0.1217	0.3688
18	116.20	1.0014	-0.1264	0.3711	-0.1262	0.3706
19	117.20	0.9984	-0.1279	0.3708	-0.1281	0.3714

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
HAWTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH RX10-6 CONF TRANSITION
2 227 0.9< 2.5 F36 FREE

POINT	ALPHA	CNF	CM	CN	XCPF	YCPF
1	118.00	0.9270	-0.1228	0.3309	-0.1324	0.3742
2	119.00	0.9256	-0.1242	0.3447	-0.1342	0.3724
3	120.01	0.9261	-0.1255	0.3430	-0.1356	0.3704
4	121.07	0.9196	-0.1265	0.3407	-0.1375	0.3704
5	122.07	0.9165	-0.1279	0.3392	-0.1395	0.3701
6	123.07	0.9104	-0.1286	0.3374	-0.1410	0.3704
7	124.06	0.9171	-0.1319	0.3398	-0.1428	0.3705
8	126.06	0.9052	-0.1327	0.3364	-0.1466	0.3717
9	128.06	0.8986	-0.1345	0.3342	-0.1498	0.3719
10	130.06	0.8843	-0.1361	0.3299	-0.1530	0.3710
11	132.07	0.8755	-0.1362	0.3228	-0.1556	0.3688
12	134.07	0.8696	-0.1377	0.3201	-0.1584	0.3681
13	136.06	0.8650	-0.1396	0.3188	-0.1614	0.3685
14	138.07	0.8546	-0.1412	0.3160	-0.1652	0.3698
15	139.10	0.8480	-0.1424	0.3139	-0.1679	0.3701
16	142.08	0.8296	-0.1473	0.3092	-0.1775	0.3726
17	144.07	0.8188	-0.1537	0.3111	-0.1901	0.3846
18	146.06	0.8085	-0.1662	0.3202	-0.2080	0.3961
19	147.06	0.7970	-0.1706	0.3179	-0.2160	0.3989

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) , AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1 HAWTIN MISSILE TAIL EFFECTS DATA
SHEET 1 OF 1 SPLITTER PLATE DATA

TEST PART MACH RE/D=6 CONF TRANSITION
2 22A 0.92 2.5 F36 FREE

POINT	ALPHA	CNF	CM	CA	XCPF	YCPF
1	147.90	0.7565	-0.1717	0.3193	-0.2160	0.4017
2	148.97	0.7767	-0.1709	0.3114	-0.2193	0.4013
3	149.96	0.7568	-0.1681	0.3058	-0.2215	0.4032
4	150.96	0.7350	-0.1643	0.2951	-0.2235	0.4015
5	151.97	0.7054	-0.1600	0.2852	-0.2267	0.4041
6	152.98	0.6795	-0.1558	0.2769	-0.2292	0.4075
7	153.97	0.6516	-0.1510	0.2681	-0.2317	0.4051
8	155.99	0.5958	-0.1404	0.2345	-0.2356	0.4020
9	157.99	0.5304	-0.1280	0.2139	-0.2413	0.4034
10	160.00	0.4661	-0.1151	0.1883	-0.2479	0.4057
11	162.00	0.4100	-0.1110	0.1696	-0.2706	0.4137
12	164.01	0.3567	-0.1002	0.1470	-0.2825	0.4145
13	166.02	0.2957	-0.0871	0.1245	-0.2946	0.4210
14	168.03	0.2412	-0.0741	0.1014	-0.3073	0.4205
15	170.05	0.1926	-0.0615	0.0791	-0.3194	0.4185
16	172.07	0.1424	-0.0483	0.0602	-0.3392	0.4226
17	174.08	0.1024	-0.0363	0.0415	-0.3530	0.4039
18	176.10	0.0637	-0.0244	0.0278	-0.3825	0.4363
19	177.11	0.0504	-0.0192	0.0245	-0.3512	0.4075

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH RE/10**6 CONF TRANSITION
2 229 0.92 2.5 F36 FREE

POINT	ALPHA	CNF	Cm	Cm	ACPF	YCPF
1	177.97	0.0384	-0.0145	0.0152	-0.3740	0.3970
2	179.04	0.0256	-0.0065	0.0065	-0.3733	0.3710
3	180.04	0.0101	-0.0052	0.0054	-0.3246	0.3333
4	181.04	0.0056	-0.0014	0.0011	-0.2578	0.2026
5	182.05	-0.0096	0.0025	-0.0030	-0.5364	0.6279
6	183.05	-0.0173	0.0070	-0.0068	-0.4036	0.3915
7	184.06	-0.0267	0.0112	-0.0119	-0.4196	0.4405
8	186.07	-0.0536	0.0214	-0.0224	-0.3989	0.4185
9	188.09	-0.0906	0.0338	-0.0401	-0.3714	0.4426

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH RX10-6 CONF TRANSITION
2 230 0.60 2.5 F3b FREE

POINT	ALPHA	CNF	CM	CA	XCPF	YCPF
1	-2.03	-0.0063	-0.0005	-0.0144	0.0179	0.5458
2	-0.97	-0.0110	-0.0011	-0.0079	0.1005	0.7138
3	0.02	-0.0004	-0.0008	-0.0025	0.8667	2.7667
4	1.05	0.0107	-0.0011	0.0021	-0.0986	0.1972
5	2.05	0.0023	-0.0013	0.0081	-0.0591	0.3625
6	3.05	0.0331	-0.0014	0.0136	-0.0416	0.4153
7	4.06	0.0477	-0.0019	0.0207	-0.0394	0.4338
8	6.07	0.0691	-0.0044	0.0186	-0.0496	0.4308
9	8.09	0.1362	-0.0064	0.0525	-0.0467	0.3854
10	10.10	0.1833	-0.0080	0.0677	-0.0437	0.3692
11	12.13	0.2495	-0.0106	0.0959	-0.0461	0.3587
12	14.15	0.3008	-0.0131	0.1017	-0.0434	0.3380
13	16.17	0.3693	-0.0160	0.1196	-0.0436	0.3233
14	18.19	0.4353	-0.0181	0.1382	-0.0417	0.3174
15	20.22	0.5026	-0.0199	0.1578	-0.0396	0.3144
16	22.25	0.5685	-0.0212	0.1780	-0.0372	0.3131
17	24.28	0.6326	-0.0224	0.1980	-0.0354	0.3130
18	26.30	0.6963	-0.0231	0.2187	-0.0332	0.3111
19	27.32	0.7293	-0.0229	0.2258	-0.0316	0.3097

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
NAVY MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH PX10-6 CONE TRANSITION
2 231 0.96 2.5 F36 FREE

POINT	ALPHA	CNF	CM	CA	ACPF	YCPF
1	28.16	0.7424	-0.0245	0.2328	-0.0334	0.3136
2	29.24	0.7771	-0.0253	0.2428	-0.0326	0.3125
3	30.25	0.8086	-0.0255	0.2501	-0.0315	0.3093
4	31.27	0.8398	-0.0263	0.2583	-0.0302	0.3076
5	32.26	0.8703	-0.0251	0.2668	-0.0269	0.3065
6	33.26	0.8986	-0.0237	0.2736	-0.0264	0.3047
7	34.29	0.9226	-0.0211	0.2800	-0.0229	0.3036
8	36.32	0.9572	-0.0120	0.2838	-0.0126	0.2965
9	38.34	0.9587	0.0033	0.2770	0.0035	0.2889
10	40.36	0.9665	0.0119	0.2749	0.0123	0.2865
11	42.38	0.9816	0.0146	0.2818	0.0149	0.2873
12	44.38	0.9983	0.0147	0.2901	0.0147	0.2906
13	46.46	1.0104	0.0137	0.2988	0.0136	0.2956
14	48.40	1.0284	0.0126	0.3050	0.0122	0.2966
15	50.34	1.0224	-0.0096	0.3178	-0.0094	0.3108
16	52.39	1.0345	-0.0141	0.3237	-0.0136	0.3117
17	54.41	1.0560	-0.0169	0.3365	-0.0178	0.3181
18	56.43	1.0950	-0.0219	0.3496	-0.0200	0.3193
19	57.99	1.1088	-0.0231	0.3543	-0.0209	0.3195

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH RX10-6 CONF TRANSITION
2 234 0.60 2.5 F36 FREE

POINT	ALPHA	CAF	CN	CM	XCPF	YCPF
1	58.24	1.1011	-0.0238	0.3547	-0.0216	0.3221
2	59.30	1.1042	-0.0250	0.3555	-0.0226	0.3220
3	60.29	1.1102	-0.0260	0.3590	-0.0234	0.3234
4	61.31	1.1157	-0.0271	0.3626	-0.0243	0.3250
5	62.31	1.1214	-0.0284	0.3642	-0.0254	0.3247
6	63.31	1.1216	-0.0295	0.3651	-0.0263	0.3255
7	64.30	1.1232	-0.0307	0.3662	-0.0273	0.3261
8	66.31	1.1316	-0.0329	0.3705	-0.0291	0.3274
9	68.31	1.1362	-0.0351	0.3727	-0.0309	0.3288
10	70.33	1.1433	-0.0368	0.3775	-0.0322	0.3302
11	72.33	1.1541	-0.0394	0.3829	-0.0342	0.3317
12	74.33	1.1552	-0.0415	0.3852	-0.0359	0.3335
13	76.33	1.1535	-0.0444	0.3856	-0.0385	0.3352
14	78.34	1.1552	-0.0464	0.3895	-0.0403	0.3372
15	80.34	1.1536	-0.0484	0.3911	-0.0420	0.3392
16	82.35	1.1512	-0.0515	0.3921	-0.0448	0.3406
17	84.36	1.1608	-0.0559	0.3960	-0.0481	0.3411
18	86.36	1.1672	-0.0602	0.4004	-0.0515	0.3430
19	87.35	1.1698	-0.0631	0.4040	-0.0539	0.3455

ARNOLD ENGINEERING DEVELOPMENT CENTER (AEDC) PROPULSION WIND TUNNEL FACILITY (PWT) AERODYNAMIC WIND TUNNEL (4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH R/10-6 CONF TRANSITION
2 235 0.60 2.5 F36 FREE

POINT	ALPHA	CNF	CH	CH	ACPF	YCPF
1	88.16	1.1351	-0.0656	0.3916	-0.0578	0.3650
2	89.15	1.1356	-0.0690	0.3933	-0.0599	0.3663
3	90.18	1.1337	-0.0697	0.3949	-0.0615	0.3683
4	91.21	1.1305	-0.0723	0.3940	-0.0640	0.3686
5	92.21	1.1198	-0.0734	0.3914	-0.0660	0.3696
6	93.21	1.1184	-0.0756	0.3912	-0.0676	0.3698
7	94.21	1.1071	-0.0764	0.3883	-0.0680	0.3707
8	96.20	1.0949	-0.0825	0.3869	-0.0754	0.3734
9	98.19	1.0926	-0.0875	0.3864	-0.0808	0.3769
10	100.20	1.0918	-0.0925	0.3872	-0.0855	0.3788
11	102.20	1.0838	-0.0976	0.3913	-0.0900	0.3810
12	104.19	1.0800	-0.1030	0.3898	-0.0954	0.3809
13	106.19	1.0644	-0.1071	0.3869	-0.1006	0.3838
14	108.20	1.0825	-0.1139	0.3934	-0.1052	0.3833
15	110.20	1.0657	-0.1170	0.3902	-0.1097	0.3861
16	112.20	1.0723	-0.1217	0.3912	-0.1135	0.3848
17	114.21	1.0716	-0.1257	0.3921	-0.1173	0.3858
18	116.21	1.0765	-0.1300	0.3961	-0.1207	0.3879
19	117.21	1.0680	-0.1315	0.3919	-0.1231	0.3870

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL (4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH ALPHA CONF TRANSITION
2 236 0.60 2.5 F36 FREE

POINT	ALPHA	CNF	CM	CA	XCPF	YCPF
1	118.03	1.0031	-0.1280	0.3716	-0.1276	0.3703
2	119.01	1.0015	-0.1296	0.3703	-0.1292	0.3698
3	120.01	1.0029	-0.1310	0.3695	-0.1306	0.3685
4	121.06	1.0040	-0.1330	0.3705	-0.1325	0.3698
5	122.07	1.0011	-0.1343	0.3696	-0.1342	0.3682
6	123.05	1.0047	-0.1364	0.3715	-0.1358	0.3698
7	124.07	0.9985	-0.1377	0.3688	-0.1379	0.3696
8	125.06	1.0034	-0.1411	0.3725	-0.1405	0.3711
9	128.07	1.0001	-0.1439	0.3690	-0.1439	0.3689
10	130.07	0.9876	-0.1455	0.3647	-0.1473	0.3691
11	132.07	0.9856	-0.1487	0.3637	-0.1510	0.3692
12	134.07	0.9586	-0.1488	0.3533	-0.1552	0.3685
13	136.07	0.9503	-0.1518	0.3530	-0.1597	0.3715
14	138.07	0.9379	-0.1547	0.3491	-0.1650	0.3722
15	140.07	0.9354	-0.1705	0.3496	-0.1785	0.3816
16	142.06	0.9388	-0.1783	0.3643	-0.1999	0.3881
17	144.06	0.9215	-0.1866	0.3541	-0.2003	0.3950
18	146.07	0.8961	-0.1830	0.3569	-0.2042	0.3961
19	147.07	0.8726	-0.1806	0.3557	-0.2070	0.3962

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

IESI PART MACH RX10-6 CONF TRANSITION
2 237 0.90 2.5 P36 FREE

POINT	ALPHA	CNF	CM	Cn	XCPF	YCPF
1	147.89	0.8736	-0.1862	0.3477	-0.2133	0.3983
2	148.90	0.8672	-0.1832	0.3376	-0.2162	0.3985
3	149.95	0.8176	-0.1789	0.3269	-0.2188	0.4022
4	150.96	0.7729	-0.1666	0.3085	-0.2155	0.3992
5	151.97	0.7425	-0.1624	0.2956	-0.2187	0.3981
6	152.96	0.7237	-0.1661	0.2918	-0.2267	0.4032
7	153.96	0.6956	-0.1597	0.2803	-0.2298	0.4033
8	155.97	0.6691	-0.1505	0.2527	-0.2392	0.4018
9	157.98	0.5872	-0.1405	0.2260	-0.2478	0.3986
10	160.00	0.4945	-0.1274	0.2015	-0.2576	0.4075
11	162.01	0.4257	-0.1139	0.1727	-0.2675	0.4058
12	164.01	0.3632	-0.1007	0.1475	-0.2773	0.4061
13	166.02	0.3024	-0.0871	0.1233	-0.2881	0.4075
14	168.04	0.2446	-0.0737	0.0997	-0.3013	0.4076
15	170.05	0.1916	-0.0603	0.0767	-0.3146	0.4006
16	172.07	0.1436	-0.0475	0.0569	-0.3305	0.3954
17	174.09	0.1112	-0.0350	0.0387	-0.3462	0.3803
18	176.11	0.0845	-0.0234	0.0245	-0.3630	0.3802
19	177.11	0.0703	-0.0182	0.0196	-0.3615	0.3661

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST	PART	MACH	RX10-6	CONF	TRANSITION
2	238	0.98	2.5	F36	FREE

POINT	ALPHA	CNF	CM	CA	XCPF	YCPF
1	177.97	0.0443	-0.0155	0.0153	-0.3487	0.3453
2	179.03	0.0304	-0.0104	0.0093	-0.3421	0.3066
3	180.04	0.0190	-0.0059	0.0049	-0.3132	0.2088
4	181.05	0.0101	-0.0022	0.0015	-0.2132	0.1530
5	182.06	-0.0026	0.0022	-0.0036	-0.8533	1.3765
6	183.06	-0.0127	0.0063	-0.0080	-0.4968	0.6317
7	184.07	-0.0237	0.0106	-0.0129	-0.4567	0.5454
8	186.08	-0.0513	0.0210	-0.0228	-0.4099	0.4452

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
HAPTIC MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH RX16-6 CONF TRANSITION
2 240 1.10 2.5 F36 FREE

POINT	ALPHA	CNF	CM	CA	XCPF	YCPF
1	-2.04	-0.0415	0.0009	-0.0152	-0.0301	0.5764
2	-0.96	-0.0160	0.0001	-0.0112	-0.0044	0.7021
3	0.03	-0.0054	-0.0002	-0.0069	0.0465	0.9126
4	1.06	0.0106	-0.0015	-0.0006	-0.1400	-0.0577
5	2.05	0.0225	-0.0019	0.0062	-0.0455	0.2747
6	3.06	0.0364	-0.0025	0.0124	-0.0720	0.3587
7	4.06	0.0493	-0.0035	0.0191	-0.0703	0.3862
8	6.08	0.0856	-0.0059	0.0359	-0.0680	0.4180
9	8.10	0.1304	-0.0095	0.0515	-0.0654	0.3948
10	10.12	0.1809	-0.0112	0.0668	-0.0617	0.3692
11	12.14	0.2336	-0.0136	0.0823	-0.0593	0.3523
12	14.14	0.2926	-0.0173	0.0986	-0.0589	0.3367
13	16.18	0.3547	-0.0197	0.1155	-0.0555	0.3257
14	18.21	0.4180	-0.0219	0.1345	-0.0524	0.3219
15	20.24	0.4818	-0.0245	0.1536	-0.0489	0.3184
16	22.27	0.5459	-0.0258	0.1732	-0.0472	0.3173
17	24.29	0.6106	-0.0282	0.1962	-0.0461	0.3179
18	26.33	0.6770	-0.0310	0.2143	-0.0457	0.3165
19	27.35	0.7086	-0.0322	0.2240	-0.0456	0.3160

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH PX10-6 CONE TRANSITION
2 241 1.10 2.5 F36 FREE

POINT	ALPHA	CNF	CM	CA	XCPF	YCPF
1	28.16	0.7367	-0.0330	0.2323	-0.0447	0.3153
2	29.25	0.7727	-0.0340	0.2428	-0.0441	0.3162
3	30.25	0.8039	-0.0349	0.2525	-0.0435	0.3161
4	31.27	0.8368	-0.0360	0.2628	-0.0431	0.3161
5	32.29	0.8703	-0.0372	0.2721	-0.0427	0.3126
6	33.29	0.9018	-0.0381	0.2833	-0.0423	0.3162
7	34.31	0.9333	-0.0391	0.2937	-0.0418	0.3166
8	36.33	0.9976	-0.0410	0.3153	-0.0411	0.3160
9	38.35	1.0586	-0.0418	0.3356	-0.0395	0.3170
10	40.38	1.0923	-0.0331	0.3424	-0.0303	0.3135
11	42.41	1.1477	-0.0214	0.3631	-0.0194	0.3098
12	44.42	1.1218	-0.0115	0.3439	-0.0103	0.3068
13	46.45	1.1253	-0.0020	0.3416	-0.0018	0.3036
14	48.46	1.1390	-0.0026	0.3479	-0.0023	0.3054
15	50.47	1.1041	-0.0041	0.3592	-0.0036	0.3086
16	52.49	1.1894	-0.0047	0.3683	-0.0040	0.3096
17	54.52	1.2216	-0.0167	0.3871	-0.0137	0.3169
18	56.52	1.2395	-0.0241	0.3984	-0.0194	0.3217
19	57.52	1.2484	-0.0271	0.4036	-0.0217	0.3232

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH RX10-6 CONE TRANSITION
2 242 1.10 2.5 F36 FREE

POINT	ALPHA	CNF	CM	CM	XCPF	YCPF
1	58.24	1.2336	-0.0259	0.3979	-0.0210	0.3226
2	59.36	1.2478	-0.0279	0.4029	-0.0224	0.3229
3	60.36	1.2556	-0.0296	0.4063	-0.0236	0.3238
4	61.37	1.2663	-0.0313	0.4123	-0.0247	0.3256
5	62.36	1.2767	-0.0330	0.4160	-0.0258	0.3259
6	63.36	1.2851	-0.0347	0.4189	-0.0270	0.3260
7	64.38	1.2924	-0.0361	0.4225	-0.0280	0.3270
8	64.39	1.2973	-0.0366	0.4276	-0.0298	0.3296
9	66.39	1.3031	-0.0422	0.4304	-0.0324	0.3303
10	70.40	1.3031	-0.0450	0.4323	-0.0345	0.3317
11	72.40	1.3037	-0.0475	0.4336	-0.0364	0.3326
12	74.40	1.3057	-0.0496	0.4368	-0.0382	0.3345
13	76.41	1.3095	-0.0523	0.4390	-0.0399	0.3351
14	78.40	1.3086	-0.0544	0.4412	-0.0416	0.3372
15	80.41	1.3118	-0.0570	0.4436	-0.0436	0.3382
16	82.42	1.3123	-0.0603	0.4443	-0.0456	0.3398
17	84.44	1.3208	-0.0633	0.4524	-0.0477	0.3405
18	86.44	1.3389	-0.0681	0.4587	-0.0509	0.3426
19	87.44	1.3411	-0.0703	0.4596	-0.0524	0.3427

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH AR10-6 CONF TRANSITION
2 243 1.10 2.5 F36 FREE

POINT	ALPHA	CNF	Cm	CH	XCPF	YCPF
4	88.23	1.3256	-0.0709	0.4535	-0.0535	0.3421
5	89.22	1.3226	-0.0730	0.4540	-0.0552	0.3432
6	90.25	1.3173	-0.0750	0.4532	-0.0570	0.3448
7	91.26	1.3137	-0.0773	0.4535	-0.0588	0.3452
8	92.26	1.3085	-0.0791	0.4534	-0.0604	0.3464
9	93.26	1.3074	-0.0814	0.4536	-0.0623	0.3470
10	94.26	1.3041	-0.0839	0.4544	-0.0642	0.3486
11	96.26	1.2981	-0.0879	0.4541	-0.0677	0.3498
12	98.26	1.2921	-0.0921	0.4537	-0.0712	0.3519
13	100.25	1.2931	-0.0964	0.4569	-0.0750	0.3533
14	102.27	1.2966	-0.1017	0.4590	-0.0785	0.3546
15	104.25	1.2937	-0.1061	0.4603	-0.0820	0.3558
16	106.26	1.2946	-0.1131	0.4614	-0.0873	0.3563
17	108.26	1.2891	-0.1185	0.4630	-0.0919	0.3592
18	110.26	1.2806	-0.1239	0.4612	-0.0968	0.3602
19	112.26	1.2889	-0.1306	0.4650	-0.1014	0.3608
20	114.27	1.2838	-0.1382	0.4653	-0.1061	0.3624
21	116.26	1.2798	-0.1416	0.4651	-0.1107	0.3634
22	117.26	1.2796	-0.1444	0.4659	-0.1128	0.3641

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1 MARTIN MISSILE TAIL EFFECTS DATA
SHEET 1 OF 1 SPLITTER PLATE DATA

TEST PART MACH RX10-6 CONF TRANSITION
2 244 1.16 2.5 F36 FREE

POINT	ALPHA	CNF	CM	CA	ΔCPF	YCPF
1	118.08	1.2738	-0.1469	0.4573	-0.1153	0.3670
2	119.05	1.2702	-0.1491	0.4666	-0.1174	0.3673
3	120.03	1.2726	-0.1510	0.4636	-0.1187	0.3643
4	121.10	1.2704	-0.1533	0.4631	-0.1207	0.3645
5	122.14	1.2652	-0.1549	0.4616	-0.1223	0.3648
6	123.09	1.2561	-0.1559	0.4599	-0.1241	0.3653
7	124.16	1.2487	-0.1573	0.4589	-0.1260	0.3659
8	126.16	1.2356	-0.1606	0.4527	-0.1300	0.3664
9	128.10	1.2186	-0.1636	0.4461	-0.1343	0.3677
10	130.09	1.1986	-0.1668	0.4431	-0.1392	0.3697
11	132.16	1.1727	-0.1726	0.4376	-0.1472	0.3732
12	134.08	1.1515	-0.1799	0.4328	-0.1562	0.3759
13	136.09	1.1330	-0.1861	0.4299	-0.1642	0.3795
14	138.08	1.1084	-0.1860	0.4214	-0.1680	0.3807
15	140.00	1.0754	-0.1846	0.4097	-0.1717	0.3818
16	142.09	1.0389	-0.1835	0.3949	-0.1766	0.3821
17	144.09	0.9982	-0.1830	0.3855	-0.1834	0.3862
18	146.11	0.9457	-0.1786	0.3658	-0.1889	0.3867
19	147.10	0.9155	-0.1756	0.3561	-0.1918	0.3889

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH RNIG-6 CONE TRANSITION
2 245 1.10 2.5 F36 FREE

POINT	ALPHA	CNF	CM	CM	ACPF	YCPF
1	147.89	0.8780	-0.1710	0.3406	-0.1968	0.3879
2	148.90	0.8437	-0.1674	0.3276	-0.1984	0.3885
3	149.90	0.8142	-0.1646	0.3175	-0.2021	0.3900
4	150.90	0.7806	-0.1606	0.3053	-0.2057	0.3912
5	151.94	0.7484	-0.1565	0.2930	-0.2092	0.3915
6	152.98	0.7142	-0.1522	0.2808	-0.2130	0.3932
7	153.98	0.6831	-0.1483	0.2689	-0.2171	0.3937
8	155.99	0.6186	-0.1389	0.2430	-0.2246	0.3929
9	157.13	0.5803	-0.1336	0.2279	-0.2302	0.3928
10	160.01	0.4843	-0.1177	0.1917	-0.2429	0.3958
11	162.02	0.4187	-0.1060	0.1680	-0.2530	0.4013
12	164.03	0.3574	-0.0943	0.1426	-0.2637	0.3990
13	166.05	0.2998	-0.0822	0.1163	-0.2762	0.3880
14	168.05	0.2443	-0.0702	0.0943	-0.2872	0.3861
15	170.07	0.1936	-0.0582	0.0736	-0.3004	0.3786
16	172.09	0.1466	-0.0464	0.0549	-0.3164	0.3747
17	174.11	0.1053	-0.0351	0.0398	-0.3335	0.3683
18	176.13	0.0697	-0.0242	0.0269	-0.3472	0.3562
19	177.13	0.0546	-0.0191	0.0191	-0.3691	0.3693

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH RX10-6 CONF TRANSITION
2 246 1.10 2.5 F36 FREE

POINT	ALPHA	CNF	CM	CA	XCPF	YCPF
1	177.98	0.0487	-0.0165	0.0156	-0.3389	0.3211
2	179.04	0.0350	-0.0114	0.0095	-0.3258	0.2707
3	180.04	0.0241	-0.0069	0.0055	-0.2975	0.2283
4	181.06	0.0148	-0.0028	-0.0002	-0.1922	-0.0120
5	182.06	0.0601	0.0015	-0.0054	10.3333	-36.2666
6	183.07	-0.0091	0.0055	-0.0104	-0.6126	1.1512
7	184.08	-0.0195	0.0101	-0.0154	-0.5048	0.7742
8	186.09	-0.0436	0.0165	-0.0251	-0.4455	0.5734

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH RX10-6 CONF TRANSITION
2 247 1.20 2.5 F30 FREE

POINT	ALPHA	CNF	CM	CN	XCPF	YCPF
1	-2.03	-0.0315	0.0012	-0.0215	-0.0380	0.6817
2	-0.98	-0.0165	0.0004	-0.0141	-0.0236	0.8545
3	0.04	-0.0045	-0.0001	-0.0073	0.0266	1.4969
4	1.05	0.0061	-0.0007	-0.0024	-0.0913	-0.2956
5	2.06	0.0220	-0.0015	0.0029	-0.0691	0.1291
6	3.05	0.0347	-0.0021	0.0077	-0.0605	0.2217
7	4.06	0.0473	-0.0027	0.0154	-0.0568	0.3245
8	6.06	0.0841	-0.0049	0.0313	-0.0585	0.3717
9	8.11	0.1266	-0.0070	0.0477	-0.0557	0.3766
10	10.13	0.1749	-0.0094	0.0622	-0.0539	0.3557
11	12.14	0.2270	-0.0116	0.0779	-0.0522	0.3433
12	14.17	0.2844	-0.0147	0.0936	-0.0517	0.3285
13	16.19	0.3438	-0.0180	1.1098	-0.0490	0.3194
14	18.22	0.4038	-0.0187	0.1263	-0.0462	0.3114
15	20.25	0.4682	-0.0203	0.1461	-0.0433	0.3128
16	22.28	0.5340	-0.0231	0.1647	-0.0432	0.3085
17	24.32	0.5959	-0.0255	0.1803	-0.0428	0.3127
18	26.35	0.6595	-0.0280	0.2061	-0.0425	0.3125
19	27.35	0.6895	-0.0289	0.2165	-0.0419	0.3141

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH RX10-6 CONF TRANSITION
2 240 1.20 2.5 F36 FREE

POINT	ALPHA	CNF	CM	CE	XCPF	YCPF
1	28.17	0.7147	-0.0248	0.2241	-0.0416	0.3136
2	29.25	0.7494	-0.0311	0.2339	-0.0415	0.3120
3	30.25	0.7831	-0.0323	0.2434	-0.0412	0.3108
4	31.28	0.8141	-0.0337	0.2533	-0.0408	0.3111
5	32.29	0.8456	-0.0343	0.2637	-0.0405	0.3117
6	33.30	0.8773	-0.0351	0.2746	-0.0400	0.3130
7	34.31	0.9075	-0.0358	0.2845	-0.0395	0.3135
8	36.34	0.9691	-0.0376	0.3062	-0.0388	0.3159
9	38.35	1.0235	-0.0386	0.3259	-0.0379	0.3184
10	40.38	1.0712	-0.0383	0.3435	-0.0357	0.3206
11	42.40	1.1074	-0.0356	0.3559	-0.0322	0.3213
12	44.42	1.1343	-0.0304	0.3633	-0.0271	0.3203
13	46.45	1.1514	-0.0243	0.3675	-0.0211	0.3192
14	48.47	1.1663	-0.0193	0.3714	-0.0165	0.3184
15	50.47	1.1784	-0.0156	0.3745	-0.0141	0.3177
16	52.50	1.2035	-0.0192	0.3836	-0.0160	0.3188
17	54.52	1.2284	-0.0275	0.3961	-0.0224	0.3242
18	56.51	1.2485	-0.0359	0.4084	-0.0288	0.3271
19	57.52	1.2615	-0.0390	0.4153	-0.0309	0.3292

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL (4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH RATIO-S CONF TRANSITION
2 249 1.20 2.5 F36 FREE

POINT	ALPHA	CNF	CM	CS	XCPF	YCPF
1	58.29	1.2560	-0.0353	0.4136	-0.0280	0.3288
2	59.36	1.2654	-0.0375	0.4179	-0.0297	0.3302
3	60.36	1.2754	-0.0397	0.4220	-0.0312	0.3308
4	61.36	1.2873	-0.0422	0.4270	-0.0328	0.3317
5	62.37	1.3001	-0.0438	0.4316	-0.0337	0.3320
6	63.38	1.3108	-0.0458	0.4366	-0.0350	0.3331
7	64.39	1.3230	-0.0477	0.4403	-0.0361	0.3328
8	66.40	1.3485	-0.0517	0.4498	-0.0384	0.3336
9	68.46	1.3686	-0.0550	0.4579	-0.0408	0.3345
10	70.42	1.3861	-0.0584	0.4655	-0.0429	0.3359
11	72.42	1.3921	-0.0615	0.4689	-0.0442	0.3368
12	74.42	1.3981	-0.0652	0.4729	-0.0456	0.3383
13	76.43	1.4096	-0.0686	0.4776	-0.0482	0.3390
14	78.43	1.4221	-0.0695	0.4849	-0.0491	0.3410
15	80.44	1.4331	-0.0717	0.4902	-0.0501	0.3421
16	82.45	1.4477	-0.0726	0.4975	-0.0503	0.3436
17	84.47	1.4586	-0.0736	0.5000	-0.0508	0.3451
18	86.48	1.4666	-0.0755	0.5017	-0.0522	0.3468
19	87.48	1.4676	-0.0766	0.5026	-0.0529	0.3472

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1 HARTIN MISSILE TAIL EFFECTS DATA
SHEET 1 OF 1 SPLITTER PLATE DATA

TEST PART MACH RX10-6 CONF TRANSITION
2 250 1.20 2.5 F36 FREE

POINT	ALPHA	CNF	CM	CA	XCPF	YCPF
1	88.22	1.4356	-0.0814	0.4492	-0.0567	0.3477
2	89.24	1.4347	-0.0831	0.4494	-0.0579	0.3481
3	90.24	1.4396	-0.0853	0.5012	-0.0593	0.3481
4	91.29	1.4403	-0.0873	0.5021	-0.0606	0.3486
5	92.29	1.4385	-0.0891	0.5025	-0.0619	0.3493
6	93.28	1.4390	-0.0906	0.5027	-0.0630	0.3496
7	94.29	1.4405	-0.0918	0.5049	-0.0637	0.3504
8	95.30	1.4404	-0.0930	0.5060	-0.0652	0.3513
9	98.29	1.4326	-0.0962	0.5039	-0.0672	0.3517
10	100.29	1.4158	-0.0988	0.5000	-0.0698	0.3531
11	102.29	1.4013	-0.1024	0.4965	-0.0730	0.3543
12	104.30	1.3809	-0.1047	0.4908	-0.0758	0.3554
13	106.30	1.3613	-0.1090	0.4855	-0.0801	0.3567
14	108.29	1.3494	-0.1161	0.4833	-0.0860	0.3582
15	110.29	1.3370	-0.1223	0.4821	-0.0915	0.3606
16	112.29	1.3236	-0.1289	0.4799	-0.0975	0.3628
17	114.30	1.3067	-0.1340	0.4770	-0.1025	0.3651
18	116.29	1.2915	-0.1412	0.4751	-0.1093	0.3679
19	117.28	1.2837	-0.1443	0.4731	-0.1124	0.3686

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH PX10-6 CONF TRANSITION
2 251 1.20 2.5 F36 FREE

POINT	ALPHA	CNF	CM	CG	XCPF	YCPF
1	120.05	1.2916	-0.1525	0.4750	-0.1181	0.3678
2	121.10	1.2813	-0.1544	0.4728	-0.1205	0.3690
3	122.11	1.2736	-0.1560	0.4707	-0.1225	0.3696
4	123.10	1.2650	-0.1573	0.4675	-0.1243	0.3696
5	124.10	1.2578	-0.1587	0.4661	-0.1262	0.3705
6	126.11	1.2406	-0.1614	0.4602	-0.1301	0.3710
7	128.06	1.2186	-0.1662	0.4553	-0.1364	0.3738
8	130.05	1.1972	-0.1700	0.4497	-0.1420	0.3756
9	132.09	1.1665	-0.1747	0.4388	-0.1463	0.3762
10	134.10	1.1369	-0.1716	0.4271	-0.1507	0.3757
11	136.10	1.1071	-0.1724	0.4163	-0.1558	0.3768
12	138.10	1.0717	-0.1732	0.4049	-0.1616	0.3779
13	140.10	1.0368	-0.1750	0.3950	-0.1691	0.3818
14	142.10	1.0096	-0.1776	0.3874	-0.1761	0.3841
15	144.10	0.9596	-0.1731	0.3686	-0.1804	0.3842
16	146.12	0.9140	-0.1660	0.3674	-0.1859	0.3843
17	147.13	0.8734	-0.1659	0.3368	-0.1893	0.3847

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST	PART	MACH	RE/D-6	CONF	TRANSITION
2	252	1.20	2.5	F36	FREE

POINT	ALPHA	CNF	CM	CN	XCPF	YCPF
1	147.93	0.8521	-0.1625	0.3279	-0.1907	0.3868
2	148.93	0.8206	-0.1592	0.3163	-0.1940	0.3854
3	149.92	0.7889	-0.1554	0.3028	-0.1970	0.3838
4	150.97	0.7551	-0.1513	0.2899	-0.2004	0.3839
5	151.98	0.7261	-0.1474	0.2785	-0.2030	0.3835
6	152.99	0.6970	-0.1433	0.2679	-0.2056	0.3843
7	153.98	0.6665	-0.1390	0.2561	-0.2091	0.3839
8	154.96	0.6386	-0.1348	0.2454	-0.2167	0.3831
9	158.00	0.5340	-0.1201	0.2082	-0.2249	0.3862
10	160.01	0.4694	-0.1094	0.1831	-0.2362	0.3901
11	162.03	0.4070	-0.0995	0.1581	-0.2444	0.3885
12	164.04	0.3478	-0.0886	0.1348	-0.2550	0.3878
13	166.05	0.2897	-0.0775	0.1106	-0.2675	0.3782
14	168.07	0.2359	-0.0661	0.0882	-0.2804	0.3740
15	170.08	0.1857	-0.0568	0.0683	-0.2953	0.3702
16	172.10	0.1418	-0.0439	0.0494	-0.3094	0.3685
17	174.12	0.1018	-0.0328	0.0351	-0.3219	0.3451
18	176.15	0.0666	-0.0220	0.0220	-0.3332	0.3331
19	177.15	0.0520	-0.0171	0.0159	-0.3291	0.3053

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH RN/B=6 CONE TRANSITION
2 253 1.20 2.5 F36 FREE

POINT	ALPHA	CNF	CM	CS	XCPF	YCPF
1	177.97	0.0471	-0.0150	0.0131	-0.3189	0.2776
2	179.05	0.0343	-0.0101	0.0034	-0.2934	0.2464
3	180.04	0.0223	-0.0055	0.0032	-0.2448	0.1453
4	181.04	0.0106	-0.0017	-0.0021	-0.1164	-0.2009
5	182.07	-0.0007	0.0030	-0.0076	-0.0267	10.1208
6	183.07	-0.0124	0.0075	-0.0124	-0.6069	1.0000
7	184.08	-0.0240	0.0122	-0.0169	-0.5073	0.7071
8	186.10	-0.0513	0.0229	-0.0264	-0.4342	0.5222

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH RX10-6 CONF TRANSITION
2 257 1.30 2.5 F36 FREE

POINT	ALPHA	CNF	Cm	Cs	XCPF	YCPF
1	-2.03	-0.0332	0.0011	-0.0222	-0.0328	0.6695
2	-0.97	-0.0152	0.0004	-0.0106	-0.0204	0.6056
3	0.03	-0.0051	-0.0003	-0.0071	0.0629	1.4028
4	1.06	0.0070	-0.0004	-0.0027	-0.1264	-0.3835
5	2.06	0.0204	-0.0017	0.0045	-0.0812	0.2225
6	3.08	0.0335	-0.0023	0.0103	-0.0696	0.3091
7	4.08	0.0461	-0.0029	0.0157	-0.0621	0.3413
8	6.10	0.0731	-0.0053	0.0329	-0.0633	0.3958
9	8.11	0.1265	-0.0078	0.0635	-0.0507	0.3796
10	10.13	0.1755	-0.0100	0.0630	-0.0568	0.3591
11	12.15	0.2277	-0.0128	0.0801	-0.0561	0.3516
12	14.19	0.2856	-0.0156	0.0963	-0.0544	0.3367
13	16.21	0.3444	-0.0178	0.1119	-0.0517	0.3250
14	18.23	0.4050	-0.0198	0.1284	-0.0499	0.3172
15	20.26	0.4694	-0.0220	0.1471	-0.0469	0.3136
16	22.29	0.5313	-0.0245	0.1664	-0.0460	0.3133
17	24.32	0.5952	-0.0273	0.1853	-0.0458	0.3130
18	26.35	0.6577	-0.0298	0.2058	-0.0453	0.3129
19	27.37	0.6907	-0.0312	0.2161	-0.0452	0.3129

ARNOLD ENGINEERING DEVELOPMENT CENTER (AEDC) PROPULSION WIND TUNNEL FACILITY (PWT) AERODYNAMIC WIND TUNNEL (4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH REIG=6 CONF TRANSITION
2 25R 1.30 2.5 F36 FREE

POINT	ALPHA	CNF	CM	CY	ACPF	YCPF
1	13.09	0.2464	-0.0136	0.0565	-0.0555	0.3458
2	14.12	0.2755	-0.0150	0.0628	-0.0544	0.3366
3	15.12	0.3062	-0.0162	0.1014	-0.0532	0.3333
4	16.14	0.3351	-0.0174	0.1084	-0.0520	0.3236
5	17.16	0.3646	-0.0183	0.1163	-0.0506	0.3194
6	18.17	0.3950	-0.0194	0.1252	-0.0492	0.3169
7	19.19	0.4250	-0.0203	0.1437	-0.0477	0.3138
8	21.21	0.4879	-0.0225	0.1527	-0.0460	0.3130
9	23.23	0.5507	-0.0251	0.1721	-0.0455	0.3125
10	25.26	0.6126	-0.0276	0.1918	-0.0451	0.3129
11	26.39	0.6484	-0.0292	0.2025	-0.0450	0.3121
12	29.31	0.7412	-0.0330	0.2332	-0.0446	0.3147
13	31.35	0.8052	-0.0355	0.2530	-0.0440	0.3142
14	33.37	0.8690	-0.0375	0.2741	-0.0431	0.3155
15	35.40	0.9324	-0.0394	0.2940	-0.0423	0.3156
16	37.44	0.9901	-0.0405	0.3146	-0.0409	0.3177
17	39.46	1.0467	-0.0412	0.3327	-0.0394	0.3184
18	41.48	1.0964	-0.0411	0.3494	-0.0375	0.3187
19	42.50	1.1195	-0.0412	0.3581	-0.0367	0.3198

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH PX10-6 CONF TRANSITION
2 259 1.30 2.5 F36 FREE

POINT	ALPHA	CNF	CM	CA	XCPF	YCPF
1	41.39	1.0401	-0.0406	0.3645	-0.0376	0.3190
2	42.42	1.1232	-0.0399	0.3577	-0.0355	0.3185
3	44.44	1.1570	-0.0371	0.3697	-0.0321	0.3195
4	46.47	1.1906	-0.0330	0.3748	-0.0280	0.3175
5	48.49	1.2269	-0.0310	0.3931	-0.0257	0.3174
6	50.50	1.2191	-0.0292	0.3867	-0.0240	0.3172
7	52.52	1.2352	-0.0338	0.4050	-0.0274	0.3198
8	54.53	1.2503	-0.0388	0.4041	-0.0310	0.3232
9	56.54	1.2788	-0.0446	0.4157	-0.0339	0.3251
10	57.57	1.2901	-0.0457	0.4224	-0.0353	0.3264

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH RX10-6 CONF TRANSITION
2 260 1.30 2.5 F36 FREE

POINT	ALPHA	CNF	CM	CS	XCPF	YCPF
1	59.31	1.2825	-0.0411	0.4190	-0.0320	0.3242
2	59.34	1.2952	-0.0434	0.4221	-0.0339	0.3259
3	60.34	1.3024	-0.0461	0.4257	-0.0354	0.3270
4	61.41	1.3116	-0.0487	0.4308	-0.0371	0.3285
5	62.41	1.3225	-0.0512	0.4354	-0.0387	0.3292
6	63.40	1.3341	-0.0532	0.4400	-0.0399	0.3298
7	64.40	1.3451	-0.0552	0.4434	-0.0411	0.3300
8	66.42	1.3699	-0.0584	0.4527	-0.0426	0.3323
9	68.42	1.3916	-0.0615	0.4628	-0.0442	0.3326
10	70.43	1.4075	-0.0652	0.4692	-0.0463	0.3334
11	72.44	1.4189	-0.0686	0.4756	-0.0483	0.3350
12	74.44	1.4335	-0.0684	0.4806	-0.0481	0.3353
13	76.46	1.4496	-0.0680	0.4859	-0.0469	0.3351
14	78.47	1.4614	-0.0696	0.4901	-0.0469	0.3354
15	80.47	1.4824	-0.0713	0.4985	-0.0481	0.3362
16	82.49	1.5002	-0.0768	0.5065	-0.0512	0.3376
17	84.51	1.5062	-0.0768	0.5106	-0.0510	0.3398
18	86.52	1.5016	-0.0775	0.5091	-0.0516	0.3390
19	87.53	1.5066	-0.0808	0.5105	-0.0536	0.3389

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH RX10-6 CONE TRANSITION
2 261 1.30 2.5 P36 FREE

POINT	ALPHA	CNF	CM	CA	XCPF	YCPF
1	88.28	1.4936	-0.0870	0.5112	-0.0582	0.3822
2	89.28	1.5020	-0.0873	0.5122	-0.0581	0.3810
3	90.30	1.5082	-0.0886	0.5142	-0.0576	0.3809
4	91.32	1.5100	-0.0866	0.5150	-0.0573	0.3810
5	92.33	1.5069	-0.0875	0.5136	-0.0580	0.3808
6	93.32	1.5091	-0.0892	0.5162	-0.0591	0.3820
7	94.33	1.5085	-0.0914	0.5161	-0.0608	0.3822
8	96.33	1.5062	-0.0965	0.5165	-0.0641	0.3842
9	98.33	1.5033	-0.0996	0.5200	-0.0663	0.3859
10	100.33	1.4954	-0.1030	0.5189	-0.0689	0.3869
11	102.33	1.4746	-0.1055	0.5133	-0.0716	0.3881
12	104.32	1.4506	-0.1103	0.5079	-0.0760	0.3901
13	106.32	1.4333	-0.1173	0.5051	-0.0818	0.3924
14	108.33	1.4259	-0.1234	0.5055	-0.0866	0.3945
15	110.34	1.3766	-0.1179	0.4930	-0.0856	0.3981
16	111.44	1.3519	-0.1180	0.4864	-0.0873	0.3998
17	114.33	1.3334	-0.1278	0.4836	-0.0959	0.4026
18	116.33	1.3021	-0.1365	0.4836	-0.1017	0.4003
19	117.34	1.3033	-0.1391	0.4862	-0.1035	0.4019

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH RX10-6 CONF TRANSITION
2 262 1.30 2.5 F36 FREE

POINT	ALPHA	CNF	Cm	C-	XCPF	YCPF
1	118.09	1.3336	-0.1395	0.4072	-0.1046	0.3653
2	119.09	1.3033	-0.1408	0.4039	-0.1064	0.3656
3	120.07	1.3064	-0.1425	0.4053	-0.1091	0.3646
4	121.12	1.2947	-0.1460	0.4022	-0.1127	0.3647
5	122.13	1.2855	-0.1484	0.4001	-0.1154	0.3657
6	123.12	1.2776	-0.1510	0.4006	-0.1182	0.3651
7	124.12	1.2717	-0.1525	0.4059	-0.1201	0.3664
8	125.12	1.2546	-0.1549	0.4590	-0.1234	0.3658
9	129.11	1.2241	-0.1560	0.4489	-0.1274	0.3667
10	130.12	1.1931	-0.1577	0.4395	-0.1322	0.3684
11	132.12	1.1606	-0.1595	0.4282	-0.1375	0.3690
12	134.13	1.1301	-0.1607	0.4166	-0.1422	0.3686
13	136.13	1.0975	-0.1609	0.4057	-0.1466	0.3697
14	138.12	1.0666	-0.1624	0.3951	-0.1522	0.3703
15	140.11	1.0607	-0.1731	0.3966	-0.1632	0.3758
16	142.12	1.0147	-0.1697	0.3807	-0.1672	0.3751
17	144.13	0.9537	-0.1665	0.3609	-0.1725	0.3785
18	146.15	0.8989	-0.1594	0.3398	-0.1773	0.3780
19	147.15	0.8753	-0.1565	0.3298	-0.1788	0.3768

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(6T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH RALU-6 CONF TRANSITION
2 203 1.30 2.5 F30 FREE

POINT	ALPHA	CNF	CM	CN	ACPF	YCPF
1	147.91	0.8663	-0.1541	0.3108	-0.1821	0.3767
2	148.97	0.8150	-0.1507	0.3060	-0.1850	0.3754
3	149.99	0.7653	-0.1475	0.2997	-0.1878	0.3753
4	150.99	0.7561	-0.1441	0.2920	-0.1906	0.3730
5	152.00	0.7225	-0.1401	0.2711	-0.1938	0.3750
6	153.00	0.6924	-0.1365	0.2599	-0.1971	0.3753
7	153.99	0.6595	-0.1324	0.2479	-0.2007	0.3756
8	156.01	0.5951	-0.1240	0.2249	-0.2084	0.3760
9	158.01	0.5306	-0.1152	0.2010	-0.2172	0.3788
10	160.02	0.4672	-0.1057	0.1767	-0.2263	0.3783
11	162.03	0.4050	-0.0958	0.1527	-0.2366	0.3769
12	164.05	0.3446	-0.0855	0.1293	-0.2479	0.3750
13	166.07	0.2883	-0.0751	0.1063	-0.2605	0.3688
14	168.07	0.2355	-0.0645	0.0844	-0.2740	0.3586
15	170.09	0.1854	-0.0535	0.0651	-0.2886	0.3512
16	172.12	0.1406	-0.0424	0.0479	-0.3015	0.3409
17	174.13	0.1030	-0.0320	0.0326	-0.3105	0.3169
18	176.16	0.0671	-0.0216	0.0198	-0.3183	0.2955
19	177.17	0.0524	-0.0164	0.0133	-0.3129	0.2539

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH RX10-6 CONE TRANSITION
2 264 1.30 2.5 F36 FREE

POINT	ALPHA	CNF	CM	CH	XCPF	YCPF
3	177.97	0.0467	-0.0156	0.0136	-0.3360	0.2908
4	179.04	0.0329	-0.0105	0.0088	-0.3191	0.2663
5	180.04	0.0206	-0.0058	0.0044	-0.2943	0.2170
6	181.06	0.0081	-0.0015	-0.0014	-0.1852	-0.1777
7	182.07	-0.0026	0.0025	-0.0070	-0.9615	2.6808
8	183.96	-0.0134	0.0069	-0.0114	-0.5000	0.4274
9	184.07	-0.0256	0.0114	-0.0152	-0.4615	0.5905
10	185.10	-0.0342	0.0218	-0.0270	-0.3985	0.4989
18	188.12	-0.0726	0.0335	-0.0422	-0.3681	0.4586

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1 MARTIN MISSILE TAIL EFFECTS DATA
SHEET 1 OF 1 SPLITTER PLATE DATA

TEST PART MACH RX10-6 CONF TRANSITION
2 289 0.92 2.5 F11 FREE

POINT	ALPHA	CNF	CM	CA	XCPF	YCPF
1	118.07	1.0693	-0.1189	0.5518	-0.1091	0.5065
2	119.13	1.0622	-0.1206	0.5461	-0.1114	0.5046
3	120.16	1.0785	-0.1218	0.5542	-0.1129	0.5045
4	121.18	1.0761	-0.1237	0.5393	-0.1150	0.5012
5	122.19	1.0748	-0.1221	0.5449	-0.1136	0.5070
6	123.05	1.0694	-0.1233	0.5375	-0.1153	0.5026
7	124.15	1.0683	-0.1243	0.5374	-0.1197	0.4975
8	126.18	1.0673	-0.1292	0.5292	-0.1211	0.4958
9	128.18	1.0684	-0.1334	0.5320	-0.1239	0.4922
10	130.18	1.0632	-0.1351	0.5340	-0.1247	0.4930
11	132.15	1.0735	-0.1356	0.5309	-0.1263	0.4946
12	134.16	1.0543	-0.1362	0.5166	-0.1311	0.4900
13	136.17	1.0293	-0.1356	0.5076	-0.1318	0.4931
14	138.16	1.0115	-0.1367	0.4959	-0.1352	0.4903
15	140.17	0.9937	-0.1360	0.4880	-0.1368	0.4911
16	142.18	0.9693	-0.1361	0.4753	-0.1404	0.4903
17	144.18	0.9564	-0.1363	0.4682	-0.1445	0.4894
18	146.19	0.9364	-0.1366	0.4562	-0.1480	0.4883
19	147.18	0.9191	-0.1362	0.4505	-0.1482	0.4901

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH RA10+6 CONF TRANSITION
2 270 0.92 2.5 F11 FREE

POINT	ALPHA	CNF	Cm	Cn	XCPF	YCPF
1	148.05	0.8942	-0.1377	0.4345	-0.1560	0.4859
2	149.11	0.8847	-0.1355	0.4325	-0.1532	0.4889
3	150.11	0.8762	-0.1363	0.4266	-0.1556	0.4868
4	151.12	0.8664	-0.1367	0.4185	-0.1572	0.4838
5	152.13	0.8577	-0.1375	0.4187	-0.1585	0.4825
6	153.13	0.8496	-0.1360	0.4101	-0.1600	0.4827
7	154.12	0.8414	-0.1360	0.4053	-0.1611	0.4803
8	156.14	0.8373	-0.1374	0.4036	-0.1641	0.4820
9	158.13	0.7867	-0.1325	0.3808	-0.1584	0.4841
10	160.14	0.7585	-0.1390	0.3696	-0.1833	0.4873
11	162.14	0.6835	-0.1403	0.3448	-0.2053	0.5065
12	164.14	0.5947	-0.1437	0.3016	-0.2416	0.5072
13	166.13	0.5633	-0.1753	0.2901	-0.3111	0.5150
14	168.13	0.4773	-0.1554	0.2466	-0.3256	0.5166
15	170.13	0.3736	-0.1322	0.1898	-0.3538	0.5088
16	172.15	0.2773	-0.1059	0.1404	-0.3815	0.5064
17	174.16	0.2026	-0.0818	0.0938	-0.4039	0.4831
18	176.18	0.1264	-0.0543	0.0574	-0.4297	0.4541
19	177.14	0.0955	-0.0419	0.0433	-0.4389	0.4528

ARNOLD ENGINEERING DEVELOPMENT CENTER (AEDC) PROPULSION WIND TUNNEL FACILITY (PWT) AERODYNAMIC WIND TUNNEL (4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST	PART	MACH	RX10-6	CONF	TRANSITION
2	271	0.9	2.5	F11	FREE

POINT	ALPHA	CNF	CM	CA	XCPF	YCPF
1	178.06	0.0722	-0.0312	0.0282	-0.4326	0.3901
2	179.05	0.0452	-0.0197	0.0138	-0.4355	0.3050
3	180.05	0.0144	-0.0076	0.0047	-0.4149	0.2564
4	181.05	-0.0095	0.0049	-0.0081	-0.5120	0.8556
5	182.06	-0.0406	0.0165	-0.0180	-0.4491	0.4899
6	183.07	-0.0635	0.0274	-0.0323	-0.4312	0.5086
7	184.07	-0.0926	0.0404	-0.0465	-0.4369	0.4906

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH RE10-6 CONF TRANSITION
2 272 0.90 2.5 F11 FREE

POINT	ALPHA	CNF	CM	CA	XCPF	YCPF
1	-2.00	-0.0565	-0.0230	-0.0330	0.4081	0.5851
2	-0.94	-0.0268	-0.0119	-0.0163	0.4443	0.6847
3	0.06	0.0019	-0.0049	-0.0023	-2.6645	-1.2630
4	1.09	0.0267	0.0036	0.0120	0.1349	0.4516
5	2.05	0.0581	0.0112	0.0249	0.2000	0.4447
6	3.11	0.0886	0.0200	0.0382	0.2255	0.4296
7	4.11	0.1226	0.0303	0.0543	0.2479	0.4477
8	6.13	0.2120	0.0416	0.1008	0.1964	0.4752
9	8.16	0.2956	0.0561	0.1463	0.1897	0.4945
10	10.16	0.3994	0.0633	0.1991	0.1584	0.4985
11	12.16	0.5075	0.0675	0.2536	0.1329	0.4993
12	13.30	0.5659	0.0712	0.2854	0.1258	0.5043
13	16.24	0.7105	0.0766	0.3642	0.1069	0.5083
14	18.26	0.8132	0.0787	0.4139	0.0968	0.5090
15	20.28	0.9075	0.0820	0.4666	0.0904	0.5101
16	22.30	1.0096	0.0770	0.5174	0.0763	0.5125
17	24.33	1.0962	0.0746	0.5623	0.0681	0.5130
18	26.33	1.0979	0.0432	0.5490	0.0394	0.5081
19	27.32	1.1206	0.0422	0.5560	0.0374	0.4934

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)

PAGE 1 OF 1

SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

SPLITTER PLATE DATA

TEST PART MACH RATIO-B CONF TRANSITION

2 273 0.90 2.5 +11 FREE

POINT	ALPHA	CNF	CM	CD	XCPF	YCPF
1	28.17	1.1484	0.0349	0.5643	0.0338	0.4916
2	29.23	1.1672	0.0361	0.5867	0.0309	0.4872
3	30.24	1.1854	0.0354	0.5768	0.0299	0.4865
4	31.24	1.1956	0.0331	0.5808	0.0277	0.4857
5	32.25	1.1942	0.0313	0.5802	0.0262	0.4858
6	33.26	1.1913	0.0303	0.5797	0.0254	0.4866
7	34.25	1.1806	0.0245	0.5758	0.0250	0.4877
8	35.25	1.1711	0.0220	0.5672	0.0188	0.4863
9	36.24	1.1597	0.0169	0.5621	0.0146	0.4867
10	40.25	1.1531	0.0151	0.5557	0.0131	0.4819
11	42.27	1.1447	0.0124	0.5538	0.0107	0.4841
12	44.27	1.1720	0.0094	0.5678	0.0080	0.4845
13	46.28	1.1732	0.0081	0.5695	0.0069	0.4854
14	48.29	1.2021	0.0033	0.5833	0.0027	0.4852
15	50.29	1.2231	-0.0001	0.5933	-0.0001	0.4848
16	52.31	1.2424	-0.0030	0.6073	-0.0024	0.4888
17	54.31	1.2613	-0.0059	0.6164	-0.0046	0.4887
18	56.33	1.2513	-0.0113	0.6078	-0.0090	0.4857
19	57.35	1.2541	-0.0094	0.6153	-0.0075	0.4911

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
PANTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH RX10-6 CONF TRANSITION
2 274 0.90 2.5 F11 FREE

POINT	ALPHA	CNF	CM	CB	XCPF	YCPF
1	58.19	1.1273	-0.0043	0.5502	-0.0038	0.4880
2	59.22	1.1316	-0.0056	0.5533	-0.0050	0.4889
3	60.21	1.1341	-0.0071	0.5559	-0.0063	0.4901
4	61.21	1.1365	-0.0102	0.5551	-0.0089	0.4884
5	62.22	1.1396	-0.0107	0.5585	-0.0094	0.4901
6	63.22	1.1426	-0.0124	0.5617	-0.0108	0.4915
7	64.23	1.1456	-0.0139	0.5645	-0.0121	0.4918
8	66.24	1.1031	-0.0192	0.5727	-0.0165	0.4924
9	68.24	1.1785	-0.0232	0.5837	-0.0197	0.4953
10	70.24	1.1910	-0.0261	0.5922	-0.0219	0.4972
11	72.26	1.2137	-0.0314	0.6072	-0.0258	0.5002
12	74.25	1.2382	-0.0356	0.6200	-0.0289	0.5008
13	76.26	1.2563	-0.0401	0.6321	-0.0320	0.5039
14	78.26	1.2744	-0.0440	0.6443	-0.0345	0.5036
15	80.29	1.2816	-0.0487	0.6530	-0.0380	0.5096
16	82.28	1.2893	-0.0523	0.6614	-0.0406	0.5130
17	84.30	1.2950	-0.0574	0.6664	-0.0443	0.5169
18	86.31	1.2985	-0.0622	0.6723	-0.0479	0.5178
19	87.33	1.3003	-0.0649	0.6746	-0.0495	0.5188

MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH RX10-6 CONF TRANSITION
2 275 0.90 2.5 F11 FREE

POINT	ALPHA	CNF	Cm	Cn	XCPF	YCPF
1	88.13	1.2244	-0.0616	0.6337	-0.0503	0.5175
2	89.13	1.2282	-0.0644	0.6356	-0.0525	0.5175
3	90.17	1.2227	-0.0680	0.6341	-0.0556	0.5186
4	91.18	1.2251	-0.0712	0.6365	-0.0581	0.5195
5	92.18	1.2271	-0.0770	0.6342	-0.0628	0.5168
6	93.17	1.2262	-0.0794	0.6337	-0.0648	0.5164
7	94.19	1.2287	-0.0831	0.6351	-0.0676	0.5168
8	96.19	1.2353	-0.0884	0.6365	-0.0716	0.5153
9	98.19	1.2412	-0.0950	0.6351	-0.0765	0.5117
10	100.20	1.2446	-0.0987	0.6369	-0.0790	0.5101
11	102.21	1.2529	-0.1035	0.6342	-0.0827	0.5062
12	104.22	1.2536	-0.1084	0.6332	-0.0864	0.5050
13	106.23	1.2501	-0.1130	0.6320	-0.0903	0.5055
14	108.23	1.2429	-0.1125	0.6275	-0.0905	0.5049
15	110.24	1.2428	-0.1171	0.6234	-0.0943	0.5018
16	112.25	1.2355	-0.1187	0.6214	-0.0960	0.5031
17	114.25	1.2242	-0.1234	0.6142	-0.1004	0.4997
18	116.27	1.2259	-0.1246	0.6144	-0.1017	0.5008
19	117.27	1.2202	-0.1278	0.6058	-0.1045	0.4963

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH RX10-6 CONF TRANSITION
2 276 0.90 2.5 F11 FREE

POINT	ALPHA	CNF	CM	CL	XCPF	YCPF
1	118.08	1.1412	-0.1221	0.5070	-0.1070	0.4968
2	119.13	1.1324	-0.1232	0.5010	-0.1088	0.4954
3	120.12	1.1316	-0.1255	0.5502	-0.1109	0.4933
4	121.14	1.1315	-0.1268	0.5594	-0.1120	0.4944
5	122.15	1.1326	-0.1281	0.5575	-0.1131	0.4925
6	123.14	1.1320	-0.1291	0.5554	-0.1140	0.4908
7	124.15	1.1307	-0.1311	0.5537	-0.1169	0.4962
8	126.15	1.1050	-0.1304	0.5718	-0.1175	0.4905
9	126.17	1.1786	-0.1354	0.5513	-0.1150	0.4935
10	130.18	1.1779	-0.1405	0.5781	-0.1193	0.4908
11	132.17	1.1615	-0.1422	0.5629	-0.1225	0.4866
12	134.18	1.1593	-0.1433	0.5655	-0.1236	0.4878
13	136.19	1.1546	-0.1474	0.5603	-0.1271	0.4832
14	138.20	1.1331	-0.1457	0.5529	-0.1265	0.4880
15	140.19	1.1555	-0.1518	0.5606	-0.1313	0.4852
16	142.20	1.1563	-0.1503	0.5640	-0.1300	0.4878
17	144.22	1.1456	-0.1546	0.5575	-0.1350	0.4878
18	146.22	1.1488	-0.1613	0.5618	-0.1404	0.4890
19	147.22	1.1556	-0.1634	0.5656	-0.1414	0.4895

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1 MARTIN MISSILE TAIL EFFECTS DATA
SHEET 1 OF 1 SPLITTER PLATE DATA

TEST PART MACH RX10-6 CONF TRANSITION
2 277 0.98 2.5 F11 FREE

POINT	ALPHA	CNF	CM	CN	XCPF	YCPF
1	148.09	1.1967	-0.1674	0.5830	-0.1401	0.4680
2	149.11	1.2053	-0.1688	0.5883	-0.1400	0.4881
3	150.11	1.1981	-0.1689	0.5835	-0.1410	0.4870
4	151.12	1.1837	-0.1682	0.5769	-0.1421	0.4873
5	152.13	1.1623	-0.1657	0.5677	-0.1426	0.4884
6	153.12	1.1366	-0.1634	0.5541	-0.1441	0.4874
7	154.12	1.1163	-0.1651	0.5459	-0.1482	0.4899
8	155.12	1.0514	-0.1675	0.5209	-0.1593	0.4955
9	158.10	0.9625	-0.1705	0.4796	-0.1771	0.4981
10	160.11	0.9038	-0.1938	0.4812	-0.2053	0.5098
11	162.11	0.8614	-0.1851	0.4369	-0.2149	0.5075
12	164.12	0.7604	-0.1724	0.3833	-0.2268	0.5041
13	166.13	0.6756	-0.1557	0.3271	-0.2377	0.4994
14	169.12	0.5351	-0.1404	0.2702	-0.2529	0.4868
15	170.11	0.4967	-0.1211	0.2140	-0.2712	0.4798
16	172.13	0.3626	-0.1027	0.1594	-0.2990	0.4661
17	174.12	0.2925	-0.0834	0.1051	-0.3339	0.4333
18	176.14	0.1481	-0.0569	0.0622	-0.3946	0.4201
19	177.14	0.1169	-0.0452	0.0412	-0.3932	0.3583

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH RX10-6 CONF TRANSITION
2 278 0.96 2.5 F11 FREE

POINT	ALPHA	CNF	CM	CA	XCPF	YCPF
1	177.96	0.0926	-0.0370	0.0268	-0.3990	0.2810
2	179.06	0.0568	-0.0220	0.0120	-0.3877	0.2111
3	180.05	0.0282	-0.0111	-0.0011	-0.3937	-0.0388
4	181.06	-0.0013	0.0010	-0.0158	-0.7708	12.0916
5	182.06	-0.0327	0.0121	-0.0268	-0.3625	0.8204
6	183.06	-0.0659	0.0253	-0.0406	-0.3835	0.6184
7	184.06	-0.0960	0.0365	-0.0573	-0.4004	0.5971

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)

PAGE 1 OF 1

SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

SPLITTER PLATE DATA

TEST PART MACH RN10-6 CONF TRANSITION

2 279 1.10 2.5 F11 FREE

POINT	ALPHA	CNF	CM	CA	XCPF	YCPF
1	-2.03	-0.0456	-0.0211	-0.0389	0.4365	0.6384
2	-0.96	-0.0160	-0.0143	-0.0155	0.8959	0.9687
3	0.04	0.0081	-0.0049	-0.0028	-0.5443	-0.3506
4	1.06	0.0403	0.0000	0.0001	0.0012	0.2002
5	2.06	0.0869	0.0076	0.0233	0.1101	0.3381
6	3.07	0.0954	0.0176	0.0387	0.1846	0.4052
7	4.08	0.1303	0.0250	0.0539	0.1919	0.4141
8	6.10	0.2071	0.0364	0.0902	0.1769	0.4355
9	8.13	0.2914	0.0439	0.1339	0.1506	0.4594
10	10.14	0.3836	0.0515	0.1839	0.1344	0.4794
11	11.27	0.4398	0.0539	0.2113	0.1225	0.4885
12	14.19	0.5635	0.0579	0.2957	0.0992	0.4897
13	16.21	0.6826	0.0545	0.3375	0.0872	0.4965
14	18.24	0.7760	0.0610	0.3696	0.0784	0.5008
15	20.25	0.8673	0.0606	0.4349	0.0698	0.5015
16	22.29	0.9542	0.0608	0.4840	0.0638	0.5072
17	24.30	1.0391	0.0582	0.5305	0.0560	0.5106
18	26.34	1.1157	0.0557	0.5690	0.0499	0.5099
19	27.34	1.1493	0.0574	0.5567	0.0339	0.5023

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH RX10-6 CONF TRANSITION
2 250 1.10 2.5 F11 FREE

POINT	ALPHA	CNF	CM	CH	XCPF	YCPF
1	28.16	1.1926	-0.0333	0.5722	0.0291	0.5008
2	29.25	1.1852	0.0312	0.5445	0.0263	0.5016
3	30.25	1.2196	0.0309	0.6107	0.0254	0.5008
4	31.26	1.2502	0.0313	0.6291	0.0251	0.5031
5	32.26	1.2801	0.0327	0.6492	0.0255	0.4993
6	33.18	1.3037	0.0326	0.6682	0.0250	0.4972
7	34.26	1.3254	0.0275	0.6563	0.0208	0.4938
8	34.26	1.3719	0.0141	0.6724	0.0118	0.4901
9	39.29	1.4062	0.0101	0.6878	0.0072	0.4898
10	40.30	1.4303	0.0040	0.7008	0.0028	0.4900
11	41.42	1.4396	0.0027	0.7054	0.0019	0.4902
12	44.31	1.4567	-0.0045	0.7112	-0.0031	0.4882
13	46.32	1.4672	-0.0079	0.7163	-0.0056	0.4896
14	48.33	1.4781	-0.0130	0.7215	-0.0088	0.4888
15	50.34	1.4786	-0.0176	0.7216	-0.0119	0.4888
16	52.35	1.4796	-0.0191	0.7253	-0.0129	0.4902
17	54.37	1.4855	-0.0222	0.7281	-0.0149	0.4901
18	56.38	1.4945	-0.0266	0.7337	-0.0178	0.4909
19	57.38	1.5002	-0.0275	0.7408	-0.0186	0.4938

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH RX10-6 CONF TRANSITION
2 281 1.10 2.5 F11 FREE

POINT	ALPHA	CNF	CM	CA	XCPF	YCPF
1	58.18	1.4854	-0.0261	0.7189	-0.0178	0.4906
2	59.25	1.4720	-0.0285	0.7227	-0.0194	0.4910
3	60.25	1.4796	-0.0297	0.7204	-0.0201	0.4910
4	61.27	1.4858	-0.0314	0.7301	-0.0211	0.4914
5	62.26	1.4916	-0.0334	0.7348	-0.0224	0.4926
6	63.26	1.5032	-0.0359	0.7399	-0.0239	0.4922
7	64.26	1.5075	-0.0379	0.7442	-0.0251	0.4937
8	66.27	1.5146	-0.0399	0.7545	-0.0263	0.4964
9	68.26	1.5266	-0.0412	0.7616	-0.0270	0.4988
10	70.29	1.5329	-0.0462	0.7636	-0.0302	0.4981
11	72.28	1.5398	-0.0485	0.7695	-0.0317	0.4997
12	74.30	1.5485	-0.0526	0.7784	-0.0340	0.5027
13	76.31	1.5547	-0.0569	0.7828	-0.0369	0.5042
14	78.31	1.5374	-0.0601	0.7788	-0.0391	0.5066
15	80.32	1.5365	-0.0646	0.7804	-0.0420	0.5079
16	82.33	1.5289	-0.0683	0.7809	-0.0447	0.5108
17	84.34	1.5221	-0.0713	0.7795	-0.0468	0.5121
18	86.36	1.5085	-0.0753	0.7771	-0.0499	0.5152
19	87.35	1.5052	-0.0780	0.7769	-0.0518	0.5161

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH RX10-6 CONF TRANSITION
2 282 1.10 2.5 F11 FREE

POINT	ALPHA	CNF	CM	CA	ACPF	YCPF
1	89.15	1.4933	-0.0792	0.7645	-0.0530	0.5147
2	89.17	1.4908	-0.0824	0.7695	-0.0556	0.5162
3	90.21	1.4855	-0.0825	0.7667	-0.0576	0.5161
4	91.22	1.4837	-0.0897	0.7631	-0.0605	0.5144
5	92.23	1.4883	-0.0928	0.7674	-0.0623	0.5156
6	93.22	1.4914	-0.0967	0.7677	-0.0648	0.5146
7	94.22	1.4964	-0.0993	0.7696	-0.0663	0.5160
8	96.23	1.5052	-0.1052	0.7714	-0.0699	0.5125
9	98.23	1.5144	-0.1093	0.7742	-0.0722	0.5112
10	100.24	1.5205	-0.1161	0.7731	-0.0763	0.5085
11	102.25	1.5145	-0.1191	0.7681	-0.0786	0.5072
12	104.25	1.5072	-0.1244	0.7721	-0.0814	0.5055
13	106.26	1.5285	-0.1264	0.7707	-0.0840	0.5062
14	108.27	1.5256	-0.1310	0.7678	-0.0858	0.5032
15	110.26	1.5266	-0.1354	0.7670	-0.0886	0.5017
16	112.28	1.5136	-0.1359	0.7622	-0.0898	0.5035
17	114.29	1.5076	-0.1380	0.7590	-0.0916	0.5001
18	116.30	1.5016	-0.1401	0.7500	-0.0933	0.4994
19	117.32	1.4965	-0.1405	0.7469	-0.0940	0.4998

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH RX10-6 CONF TRANSITION
2 283 1.10 2.5 F11 FREE

POINT	ALPHA	CNF	CM	CA	XCPF	YCPF
1	118.08	1.5086	-0.1446	0.7460	-0.0952	0.4959
2	119.17	1.4990	-0.1447	0.7449	-0.0965	0.4969
3	120.16	1.4907	-0.1451	0.7397	-0.0976	0.4982
4	121.18	1.4813	-0.1473	0.7328	-0.0994	0.4947
5	122.19	1.4739	-0.1480	0.7285	-0.1004	0.4943
6	123.18	1.4644	-0.1486	0.7217	-0.1016	0.4927
7	124.18	1.4591	-0.1503	0.7181	-0.1030	0.4922
8	125.30	1.4512	-0.1501	0.7174	-0.1034	0.4946
9	128.19	1.4514	-0.1544	0.7140	-0.1064	0.4918
10	130.19	1.4545	-0.1575	0.7186	-0.1083	0.4941
11	132.20	1.4576	-0.1624	0.7174	-0.1116	0.4922
12	134.20	1.4605	-0.1651	0.7185	-0.1130	0.4919
13	136.21	1.4535	-0.1672	0.7146	-0.1150	0.4915
14	138.21	1.4455	-0.1693	0.7113	-0.1171	0.4921
15	140.23	1.4383	-0.1712	0.7046	-0.1197	0.4926
16	142.23	1.4092	-0.1729	0.6957	-0.1227	0.4937
17	144.24	1.3784	-0.1751	0.6789	-0.1272	0.4932
18	146.25	1.3251	-0.1757	0.6551	-0.1326	0.4944
19	147.25	1.2952	-0.1757	0.6411	-0.1355	0.4946

ARNOLD ENGINEERING DEVELOPMENT CENTER (AEDC) PROPULSION WIND TUNNEL FACILITY (PWT) AERODYNAMIC WIND TUNNEL (4T)
PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH RX10-6 CONF TRANSITION
2 .284 1.10 2.5 F11 FREE

POINT	ALPHA	CNF	CM	CH	XCPF	YCPF
1	148.05	1.2946	-0.1752	0.6020	-0.1353	0.4944
2	149.12	1.2622	-0.1725	0.6285	-0.1367	0.4964
3	150.11	1.2687	-0.1697	0.6091	-0.1381	0.4969
4	151.12	1.1995	-0.1666	0.5973	-0.1414	0.4980
5	152.13	1.1638	-0.1679	0.5810	-0.1443	0.4992
6	153.12	1.1404	-0.1659	0.5612	-0.1476	0.4992
7	154.12	1.0821	-0.1650	0.5462	-0.1525	0.4973
8	155.12	0.9976	-0.1642	0.4955	-0.1666	0.4968
9	158.12	0.9793	-0.1627	0.4929	-0.1666	0.5034
10	160.12	0.8687	-0.1732	0.4462	-0.1948	0.5020
11	162.13	0.8044	-0.1643	0.3994	-0.2062	0.4965
12	164.12	0.7113	-0.1529	0.3503	-0.2150	0.4925
13	166.13	0.6155	-0.1406	0.3003	-0.2284	0.4879

ARNOLD ENGINEERING DEVELOPMENT CENTER (AEDC) PROPULSION WIND TUNNEL FACILITY (PWT) AERODYNAMIC WIND TUNNEL (4T)
PAGE 1 OF 1 MARTIN MISSILE TAIL EFFECTS DATA
SHEET 1 OF 1 SPLITTER PLATE DATA

TEST PART MACH RX10-6 CONF TRANSITION
2 285 1.10 2.5 FIL FREE

POINT	ALPHA	CNF	Cm	Cn	ΔCPF	YCPF
1	168.12	0.5123	-0.1253	0.2467	-0.2406	0.4816
2	170.13	0.4130	-0.1044	0.1920	-0.2661	0.4650
3	172.13	0.3106	-0.0814	0.1442	-0.2686	0.4550
4	174.14	0.2313	-0.0733	0.0996	-0.3167	0.4297
5	176.16	0.1509	-0.0536	0.0556	-0.3550	0.3688
6	177.17	0.1162	-0.0424	0.0401	-0.3653	0.3453

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH RX10-6 CONF TRANSITION
c 206 1.10 2.5 F11 FREE

POINT	ALPHA	CNF	Cm	Ca	XCPF	YCPF
1	177.98	0.0993	-0.0376	0.0316	-0.3788	0.3159
2	179.05	0.0676	-0.0248	0.0135	-0.3668	0.1990
3	180.06	0.0361	-0.0128	0.0009	-0.3538	0.0744
4	181.06	0.0086	-0.0038	-0.0148	-0.4340	-1.6795
5	182.07	-0.0226	0.0074	-0.0264	-0.3245	1.0661
6	183.06	-0.0525	0.0188	-0.0384	-0.3585	0.7321
7	184.07	-0.0816	0.0296	-0.0531	-0.3625	0.6511

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH R/I0-6 CO-F TRANSITION
2 267 1.20 2.5 F11 FREE

POINT	ALPHA	CNF	CM	CE	XCPF	YCPF
1	-2.04	-0.0487	-0.0217	-0.0350	0.4467	0.7201
2	-1.96	-0.0151	-0.0145	-0.0182	0.9626	1.2117
3	0.06	0.0131	-0.0055	-0.0040	-0.4176	-0.3064
4	1.07	0.0463	0.0008	0.0084	0.0170	0.1623
5	2.08	0.0765	0.0076	0.0245	0.0995	0.3208
6	3.08	0.1074	0.0156	0.0400	0.1453	0.3723
7	4.09	0.1432	0.0209	0.0557	0.1460	0.3888
8	5.12	0.2190	0.0295	0.0737	0.1348	0.4279
9	8.13	0.3054	0.0363	0.1372	0.1122	0.4491
10	10.16	0.3936	0.0380	0.1827	0.0966	0.4639
11	12.18	0.4890	0.0403	0.2313	0.0825	0.4731
12	14.20	0.5816	0.0433	0.2780	0.0745	0.4781
13	16.22	0.6751	0.0456	0.3274	0.0667	0.4850
14	18.25	0.7714	0.0429	0.3743	0.0556	0.4853
15	20.27	0.8554	0.0454	0.4214	0.0536	0.4927
16	22.31	0.9346	0.0472	0.4662	0.0504	0.4977
17	24.32	1.0132	0.0484	0.5082	0.0477	0.5018
18	26.37	1.0906	0.0491	0.5470	0.0413	0.5015
19	27.37	1.1305	0.0524	0.5655	0.0375	0.5002

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH RX10-6 CONF TRANSITION
2 2BP 1.20 2.5 F11 FREE

POINT	ALPHA	CNF	CM	CD	XCPF	YCPF
1	28.17	1.1587	0.0410	0.5602	0.0354	0.5007
2	29.25	1.1955	0.0361	0.5963	0.0319	0.4988
3	30.25	1.2197	0.0386	0.6102	0.0316	0.5003
4	31.27	1.2367	0.0331	0.6203	0.0268	0.5016
5	32.27	1.2671	0.0289	0.6316	0.0228	0.4984
6	33.29	1.2954	0.0275	0.6444	0.0212	0.4975
7	34.29	1.3221	0.0225	0.6539	0.0170	0.4966
8	36.31	1.3619	0.0206	0.6720	0.0153	0.4934
9	38.32	1.3935	0.0142	0.6868	0.0102	0.4914
10	40.32	1.4375	0.0021	0.7002	0.0015	0.4871
11	42.32	1.4595	-0.0019	0.7127	-0.0013	0.4882
12	44.33	1.4744	-0.0068	0.7246	-0.0046	0.4915
13	46.35	1.4852	-0.0105	0.7296	-0.0071	0.4913
14	48.35	1.5031	-0.0144	0.7361	-0.0099	0.4897
15	50.36	1.5093	-0.0172	0.7388	-0.0116	0.4898
16	52.37	1.5169	-0.0211	0.7442	-0.0139	0.4906
17	54.38	1.5184	-0.0249	0.7459	-0.0164	0.4913
18	56.40	1.5273	-0.0284	0.7516	-0.0189	0.4921
19	57.42	1.5305	-0.0318	0.7532	-0.0208	0.4928

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1 MARTIN MISSILE TAIL EFFECTS DATA
SHEET 1 OF 1 SPLITTER PLATE DATA

TEST PART MACH 6X10-6 CONF TRANSITION
2 289 1.20 2.5 F11 FREE

POINT	ALPHA	CNF	Cm	Cn	XCPF	YCPF
1	58.19	1.5296	-0.0320	0.7537	-0.0209	0.4927
2	59.27	1.5371	-0.0348	0.7574	-0.0227	0.4927
3	60.21	1.5415	-0.0333	0.7607	-0.0216	0.4961
4	61.27	1.5479	-0.0360	0.7656	-0.0233	0.4965
5	62.26	1.5553	-0.0345	0.7696	-0.0254	0.4968
6	63.28	1.5584	-0.0400	0.7727	-0.0257	0.4957
7	64.28	1.5645	-0.0407	0.7781	-0.0260	0.4972
8	66.29	1.5765	-0.0443	0.7833	-0.0281	0.4975
9	68.29	1.5784	-0.0469	0.7859	-0.0295	0.4979
10	70.30	1.5834	-0.0495	0.7923	-0.0312	0.5002
11	72.30	1.5812	-0.0525	0.7950	-0.0332	0.5028
12	74.31	1.5787	-0.0551	0.7946	-0.0349	0.5033
13	75.33	1.5833	-0.0547	0.7987	-0.0377	0.5045
14	78.33	1.5803	-0.0638	0.8002	-0.0434	0.5063
15	80.33	1.5767	-0.0674	0.8029	-0.0427	0.5092
16	82.34	1.5752	-0.0727	0.8039	-0.0461	0.5104
17	84.35	1.5526	-0.0736	0.7997	-0.0476	0.5153
18	86.36	1.5417	-0.0807	0.7991	-0.0523	0.5183
19	87.37	1.5317	-0.0820	0.7950	-0.0535	0.5190

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST	PART	MACH	RADIUS	CONF	TRANSITION
2	290	1.60	2.5	F11	FREE

POINT	ALPHA	CNF	CM	CA	XCPF	YCPF
1	88.16	1.5308	-0.0926	0.7993	-0.0540	0.5189
2	89.18	1.5278	-0.0861	0.7920	-0.0563	0.5184
3	90.21	1.5245	-0.0908	0.7924	-0.0596	0.5197
4	91.22	1.5248	-0.0945	0.7917	-0.0618	0.5176
5	92.23	1.5305	-0.0982	0.7983	-0.0641	0.5162
6	93.23	1.5346	-0.1019	0.7926	-0.0662	0.5152
7	94.23	1.5445	-0.1045	0.7935	-0.0677	0.5138
8	96.25	1.5573	-0.1102	0.7960	-0.0708	0.5124
9	98.25	1.5566	-0.1137	0.7954	-0.0731	0.5112
10	100.25	1.5714	-0.1213	0.8005	-0.0771	0.5092
11	102.25	1.5076	-0.1236	0.7963	-0.0788	0.5079
12	104.26	1.5723	-0.1290	0.7939	-0.0820	0.5049
13	106.27	1.5804	-0.1320	0.8021	-0.0835	0.5074
14	108.29	1.5766	-0.1334	0.7986	-0.0846	0.5053
15	109.38	1.5770	-0.1355	0.7959	-0.0859	0.5047
16	112.29	1.5776	-0.1393	0.7929	-0.0883	0.5025
17	114.31	1.5804	-0.1430	0.7922	-0.0905	0.5012
18	116.32	1.5816	-0.1426	0.7836	-0.0913	0.5018
19	117.33	1.5811	-0.1450	0.7823	-0.0929	0.5011

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH RX10-6 CONF TRANSITION
2 291 1.20 2.5 P11 FREE

POINT	ALPHA	CNF	CM	CH	ACPF	YCPF
1	118.10	1.5526	-0.1452	0.7747	-0.0935	0.4989
2	119.17	1.5474	-0.1474	0.7689	-0.0955	0.4969
3	120.16	1.5423	-0.1481	0.7655	-0.0961	0.4963
4	121.16	1.5327	-0.1492	0.7600	-0.0973	0.4958
5	122.18	1.5284	-0.1503	0.7548	-0.0985	0.4938
6	123.18	1.5252	-0.1522	0.7536	-0.0998	0.4941
7	124.19	1.5183	-0.1526	0.7504	-0.1001	0.4942
8	126.19	1.5103	-0.1544	0.7464	-0.1023	0.4942
9	128.19	1.5102	-0.1593	0.7471	-0.1055	0.4947
10	130.19	1.5017	-0.1597	0.7422	-0.1064	0.4942
11	132.20	1.4951	-0.1632	0.7367	-0.1092	0.4941
12	134.21	1.4813	-0.1654	0.7318	-0.1116	0.4940
13	136.22	1.4746	-0.1678	0.7282	-0.1138	0.4940
14	138.22	1.4539	-0.1700	0.7153	-0.1169	0.4920
15	140.23	1.4204	-0.1713	0.7001	-0.1206	0.4929
16	142.23	1.3688	-0.1774	0.6862	-0.1281	0.4941
17	144.24	1.3566	-0.1826	0.6753	-0.1346	0.4977
18	146.26	1.3207	-0.1862	0.6610	-0.1410	0.5005
19	147.26	1.4424	-0.1830	0.6640	-0.1416	0.5020

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST	PART	MACH	RE/D-6	CONF	TRANSITION
2	292	1.20	2.5	F11	FREE

POINT	ALPHA	CNF	Cm	C-1	XCPF	YCPF
1	148.14	1.2741	-0.1825	0.6346	-0.1432	0.4981
2	149.12	1.2443	-0.1804	0.6209	-0.1449	0.4989
3	150.11	1.2384	-0.1866	0.6202	-0.1508	0.5006
4	151.12	1.2143	-0.1847	0.6100	-0.1521	0.5023
5	152.12	1.1812	-0.1817	0.5920	-0.1538	0.5012
6	153.11	1.1434	-0.1786	0.5719	-0.1562	0.5002
7	154.12	1.1045	-0.1757	0.5528	-0.1591	0.5005
8	156.13	1.0239	-0.1700	0.5077	-0.1660	0.4959
9	158.13	0.9453	-0.1624	0.4671	-0.1718	0.4941
10	160.13	0.8593	-0.1571	0.4227	-0.1770	0.4919
11	162.13	0.7727	-0.1403	0.3785	-0.1922	0.4898
12	164.13	0.6865	-0.1305	0.3311	-0.1900	0.4823
13	166.13	0.5971	-0.1147	0.2820	-0.2006	0.4723
14	168.13	0.5032	-0.1069	0.2249	-0.2124	0.4569
15	170.14	0.4110	-0.0942	0.1823	-0.2292	0.4435
16	172.14	0.3131	-0.0786	0.1347	-0.2512	0.4302
17	174.17	0.2334	-0.0653	0.0914	-0.2799	0.3918
18	176.17	0.1525	-0.0462	0.0521	-0.3027	0.3415
19	177.17	0.1186	-0.0378	0.0345	-0.3206	0.2926

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST	PART	MACH	RX10-6	CONF	TRANSITION
2	293	1.20	2.5	F11	FREE

POINT	ALPHA	CNF	CM	CO	XCPF	YCPF
1	177.98	0.1406	-0.0338	0.0295	-0.3350	0.2932
2	179.05	0.0695	-0.0263	0.0104	-0.3505	0.1493
3	180.06	0.0373	-0.0120	-0.0022	-0.3224	-0.0589
4	181.06	0.0020	-0.0007	-0.0169	-0.3462	-0.2293
5	182.06	-0.0272	0.0067	-0.0271	-0.3181	0.9963
6	183.06	-0.0546	0.0178	-0.0449	-0.2989	0.7530
7	184.07	-0.0936	0.0288	-0.0607	-0.3071	0.6474
8	186.07	-0.1703	0.0661	-0.0979	-0.2709	0.5752

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH RX10-6 CONF TRANSITION
2 294 1.30 2.5 F11 FREE

POINT	ALPHA	CNF	CM	CM	XCPF	YCPF
1	-2.04	-0.0030	-0.0179	-0.0332	0.4158	0.7725
2	-0.97	-0.0044	-0.0107	-0.0164	1.0561	1.7495
3	-0.01	0.0022	-0.0054	-0.0029	-0.2514	-0.1316
4	1.06	0.0066	0.0007	0.0102	0.0637	0.1805
5	2.07	0.0071	0.0061	0.0261	0.0695	0.2992
6	3.07	0.1211	0.0118	0.0408	0.0971	0.3366
7	4.04	0.1537	0.0181	0.0569	0.1175	0.3705
8	6.12	0.2264	0.0256	0.0958	0.1129	0.4231
9	8.13	0.3039	0.0298	0.1337	0.0982	0.4400
10	10.15	0.3900	0.0305	0.1758	0.0783	0.4508
11	12.16	0.4784	0.0315	0.2228	0.0657	0.4653
12	13.31	0.5304	0.0326	0.2464	0.0615	0.4681
13	16.23	0.6603	0.0344	0.3126	0.0521	0.4736
14	18.25	0.7485	0.0365	0.3572	0.0461	0.4773
15	20.28	0.8375	0.0350	0.4028	0.0417	0.4809
16	22.31	0.9184	0.0340	0.4419	0.0369	0.4809
17	24.33	0.9914	0.0362	0.4846	0.0365	0.4886
18	26.38	1.0662	0.0353	0.5228	0.0331	0.4904
19	27.38	1.0967	0.0365	0.5421	0.0333	0.4963

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
HAWTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH BA10-6 CONF TRANSITION
ε 29° 1.30 2.5 FIL FREE

POINT	ALPHA	CNF	CM	CN	XCPF	YCPF
1	28.17	1.1194	0.0313	0.5501	0.0260	0.4912
2	29.25	1.1546	0.0313	0.5692	0.0270	0.4922
3	30.20	1.1881	0.0309	0.5867	0.0260	0.4939
4	31.28	1.2193.	0.0266	0.5995	0.0234	0.4917
5	32.24	1.2500	0.0279	0.6162	0.0223	0.4930
6	33.26	1.2774	0.0258	0.6322	0.0202	0.4949
7	34.24	1.3103	0.0224	0.6410	0.0176	0.4929
8	36.30	1.3551	0.0170	0.6545	0.0128	0.4902
9	38.32	1.3684	0.0141	0.6594	0.0103	0.4898
10	40.33	1.3955	0.0058	0.6611	0.0042	0.4681
11	42.34	1.4223	-0.0009	0.6994	-0.0006	0.4918
12	44.34	1.4500	-0.0069	0.7066	-0.0061	0.4887
13	46.37	1.4654	-0.0110	0.7177	-0.0075	0.4899
14	47.47	1.4800	-0.0136	0.7229	-0.0092	0.4884
15	50.38	1.5085	-0.0186	0.7361	-0.0124	0.4893
16	52.39	1.5124	-0.0217	0.7428	-0.0143	0.4910
17	54.40	1.5151	-0.0240	0.7491	-0.0158	0.4944
18	56.42	1.5239	-0.0281	0.7551	-0.0184	0.4955
19	57.43	1.5264	-0.0307	0.7580	-0.0201	0.4964

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH RX10-6 CONE TRANSITION
2 29A 1.30 2.5 F11 FREE

POINT	ALPHA	CNF	CM	CA	XCPF	YCPF
1	58.20	1.5228	-0.0368	0.7588	-0.0228	0.4983
2	59.27	1.5296	-0.0351	0.7649	-0.0229	0.5001
3	60.28	1.5372	-0.0374	0.7679	-0.0246	0.4995
4	61.28	1.5446	-0.0395	0.7698	-0.0256	0.4983
5	62.30	1.5507	-0.0384	0.7730	-0.0247	0.4985
6	63.29	1.5609	-0.0409	0.7772	-0.0262	0.4979
7	64.29	1.5615	-0.0442	0.7791	-0.0257	0.4988
8	66.30	1.5681	-0.0430	0.7854	-0.0274	0.5008
9	68.31	1.5629	-0.0466	0.7862	-0.0287	0.5031
10	70.32	1.5662	-0.0493	0.7898	-0.0315	0.5042
11	71.42	1.5674	-0.0504	0.7947	-0.0322	0.5070
12	74.32	1.5692	-0.0540	0.7979	-0.0348	0.5085
13	76.33	1.5666	-0.0575	0.7970	-0.0368	0.5095
14	78.34	1.5602	-0.0617	0.7977	-0.0395	0.5113
15	80.35	1.5568	-0.0649	0.8016	-0.0417	0.5149
16	81.40	1.5597	-0.0671	0.8068	-0.0430	0.5160
17	84.38	1.5604	-0.0692	0.7928	-0.0453	0.5182
18	86.36	1.5326	-0.0783	0.7936	-0.0511	0.5178
19	87.36	1.5296	-0.0815	0.7934	-0.0535	0.5188

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH RX10-6 CONE TRANSITION
2 297 1.30 2.5 FII FREE

POINT	ALPHA	CNF	CN	CH	XCPF	YCPF
1	88.18	1.5295	-0.0860	0.7944	-0.0562	0.5194
2	89.17	1.5307	-0.0885	0.7931	-0.0578	0.5181
3	90.22	1.5344	-0.0897	0.7945	-0.0585	0.5178
4	91.23	1.5285	-0.0906	0.7934	-0.0592	0.5191
5	92.23	1.5251	-0.0940	0.7908	-0.0616	0.5185
6	93.23	1.5291	-0.0973	0.7908	-0.0636	0.5171
7	94.23	1.5312	-0.0995	0.7914	-0.0649	0.5169
8	96.24	1.5354	-0.1076	0.7901	-0.0701	0.5146
9	98.25	1.5505	-0.1119	0.7984	-0.0721	0.5153
10	100.25	1.5482	-0.1161	0.7961	-0.0750	0.5142
11	102.26	1.5551	-0.1225	0.7995	-0.0788	0.5141
12	104.26	1.5582	-0.1273	0.8005	-0.0817	0.5138
13	106.28	1.5621	-0.1294	0.8022	-0.0828	0.5135
14	108.29	1.5708	-0.1341	0.7997	-0.0854	0.5091
15	110.30	1.5755	-0.1356	0.8043	-0.0861	0.5105
16	112.30	1.5717	-0.1371	0.7978	-0.0873	0.5076
17	114.32	1.5580	-0.1370	0.7988	-0.0879	0.5078
18	116.33	1.5596	-0.1432	0.7867	-0.0918	0.5044
19	117.33	1.5565	-0.1465	0.7858	-0.0929	0.5056

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH PA10-6 CONF TRANSITION
2 298 1.30 2.5 F11 FREE

POINT	ALPHA	CNF	Cm	C-	ACPF	XCPF
3	120.12	1.5431	-0.1479	0.7718	-0.0956	0.5002
4	121.16	1.5353	-0.1465	0.7689	-0.0947	0.4982
5	122.16	1.5331	-0.1515	0.7691	-0.0988	0.4958
6	123.16	1.5279	-0.1511	0.7593	-0.0989	0.4970
7	124.16	1.5281	-0.1521	0.7580	-0.0998	0.4973
8	125.16	1.5270	-0.1527	0.7516	-0.1013	0.4987
9	126.20	1.4968	-0.1572	0.7432	-0.1049	0.4958
10	130.20	1.4654	-0.1549	0.7358	-0.1077	0.4954
11	132.21	1.4765	-0.1614	0.7318	-0.1095	0.4963
12	134.21	1.4635	-0.1633	0.7245	-0.1116	0.4950
13	136.23	1.4591	-0.1676	0.7182	-0.1150	0.4922
14	138.22	1.4336	-0.1688	0.7065	-0.1177	0.4927
15	140.24	1.4019	-0.1714	0.6927	-0.1226	0.4941
16	142.25	1.3898	-0.1775	0.6763	-0.1296	0.4937
17	144.26	1.3304	-0.1796	0.6609	-0.1346	0.4968
18	146.26	1.2884	-0.1793	0.6411	-0.1392	0.4976
19	147.26	1.2681	-0.1796	0.6314	-0.1418	0.4979

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1
MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH RX10-6 CONF TRANSITION
2 299 1.30 2.5 F11 FREE

POINT	ALPHA	CNF	CM	CA	XCPF	YCPF
1	148.07	1.2527	-0.1744	0.0232	-0.1436	0.4975
2	149.12	1.2185	-0.1763	0.0256	-0.1447	0.4970
3	150.11	1.1952	-0.1761	0.0248	-0.1472	0.4967
4	151.12	1.1651	-0.1734	0.0243	-0.1488	0.4929
5	152.13	1.1256	-0.1688	0.0266	-0.1499	0.4962
6	153.12	1.0926	-0.1642	0.0287	-0.1521	0.4931
7	154.13	1.0576	-0.1636	0.0249	-0.1567	0.4915
8	156.13	0.9773	-0.1552	0.0217	-0.1588	0.4928
9	158.13	0.9046	-0.1467	0.0216	-0.1621	0.4881
10	160.14	0.8256	-0.1382	0.0255	-0.1674	0.4789
11	162.13	0.7409	-0.1287	0.0198	-0.1738	0.4721
12	164.14	0.6600	-0.1191	0.0260	-0.1804	0.4636
13	166.14	0.5861	-0.1063	0.0214	-0.1877	0.4617
14	168.14	0.4744	-0.0943	0.0165	-0.1986	0.4559
15	170.15	0.3901	-0.0853	0.0102	-0.2187	0.4362
16	172.15	0.3055	-0.0736	0.0124	-0.2410	0.4171
17	174.16	0.2302	-0.0598	0.0060	-0.2600	0.3908
18	176.17	0.1514	-0.0425	0.0032	-0.2804	0.3512
19	177.17	0.1167	-0.0332	0.0046	-0.2949	0.2967

ARNOLD ENGINEERING DEVELOPMENT CENTER(AEDC) PROPULSION WIND TUNNEL FACILITY(PWT) AERODYNAMIC WIND TUNNEL(4T)
PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST	PART	MACH	RE10-6	CONF	TRANSITION
2	300	1.30	2.5	F11	FREE

POINT	ALPHA	CNF	Cm	Cn	KCPF	YCPF
1	177.96	0.0491	-0.0275	0.0264	-0.2776	0.2503
2	179.04	0.0646	-0.0151	0.0085	-0.2797	0.1316
3	180.05	0.0316	-0.0068	-0.0072	-0.2755	-0.2268
4	181.08	-0.0010	-0.0001	-0.0169	0.0606	19.0808
5	182.06	-0.0336	0.0093	-0.0350	-0.2795	1.0538
6	183.06	-0.0616	0.0157	-0.0497	-0.2546	0.8965
7	184.07	-0.0946	0.0254	-0.0696	-0.2435	0.6566
8	186.06	-0.1717	0.0421	-0.1001	-0.2451	0.5830

APPENDIX C
TEST 3

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	REL-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
3	19	2.30	3.0	0.0	W1W0F35	0.0	0	0	0	0	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-3.58	0.01	-0.0033	1.9961	-0.0274	0.0170	-0.0603	0.3896	0.1234	0.2660	-2.4292
2	-2.02	0.01	-0.0455	1.1786	-0.0267	0.0145	-0.0452	0.3856	0.1207	0.2651	-2.5272
3	-0.99	0.01	-0.2478	0.5843	-0.0270	0.0273	-0.0434	0.3867	0.1193	0.2669	-2.6831
4	0.10	0.01	-0.1197	0.1264	-0.0015	-0.0136	-0.0626	0.3877	0.1205	0.2672	-8.0433
5	1.12	0.01	0.1235	-0.3421	-0.0150	0.0176	-0.0656	0.3856	0.1192	0.2664	-1.9079
6	2.15	0.01	0.3458	-0.8504	-0.0070	0.0060	-0.0618	0.3869	0.1193	0.2656	-2.1497
7	4.25	0.01	0.8342	-1.9792	-0.0125	0.0118	-0.0611	0.3930	0.1276	0.2654	-2.2527
8	6.35	0.01	1.2925	-2.9299	-0.0222	0.0355	-0.0637	0.4112	0.1432	0.2680	-2.1895
9	8.51	0.01	1.7516	-3.7698	-0.0250	0.0456	-0.0590	0.4235	0.1532	0.2703	-2.0822
10	10.61	0.01	2.2071	-4.5111	-0.0227	0.0145	-0.0577	0.4350	0.1602	0.2748	-1.9553
11	12.77	0.01	2.6538	-5.2456	-0.0245	-0.0162	-0.0595	0.4268	0.1517	0.2771	-1.8122
12	14.98	0.01	3.0932	-5.9375	-0.0226	-0.0329	-0.0542	0.4256	0.1490	0.2765	-1.7030
13	17.19	0.01	3.5131	-6.6031	-0.0132	-0.0423	-0.0523	0.4315	0.1490	0.2825	-1.6385
14	19.45	0.02	3.9387	-7.2425	-0.0151	-0.1214	-0.0471	0.4365	0.1461	0.2904	-1.5944
15	21.55	0.02	4.3476	-7.8257	-0.0217	-0.1337	-0.0520	0.4417	0.1420	0.2997	-1.5579
16	23.65	0.03	4.7457	-8.3874	-0.0448	-0.0134	-0.0607	0.4504	0.1361	0.3143	-1.5518
17	0.09	0.01	-0.0175	0.1255	-0.0151	0.0037	-0.0659	0.3867	0.1209	0.2658	-8.1032

LANGLEY RESEARCH CENTER (LASA) UNITARY PLAN WIND TUNNEL (UPWT)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RN/FT	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
3	2P	2.36	4.0	45.0	-1.0F35	0.0	0	0	0	0	FIXED

POINT	ALPHA	BETA	CN	CLN	CY	CLN	CLL	CA	CAH	CAF	XCP
1	-3.56	0.02	-0.7921	1.3256	-0.0293	0.0518	-0.0469	0.3805	0.1222	0.2643	-2.4308
2	-2.01	0.01	-0.5542	1.1401	-0.0259	0.0579	-0.0464	0.3731	0.1166	0.2665	-2.5263
3	-1.47	0.01	-0.4815	0.8834	-0.0281	0.0525	-0.0396	0.3654	0.1140	0.2674	-2.6467
4	-0.94	0.01	-0.2217	0.1337	-0.0445	0.0829	-0.0693	0.3661	0.1195	0.2666	-6.4588
5	1.14	0.01	0.1475	-0.3651	-0.0344	0.0663	-0.0691	0.3832	0.1181	0.2651	-1.9624
6	2.14	0.01	0.3496	-0.8436	-0.0528	0.0934	-0.0724	0.3812	0.1180	0.2632	-2.1671
7	4.27	0.0	0.7252	-1.8672	-0.0355	0.0850	-0.0583	0.3866	0.1279	0.2639	-2.2633
8	5.36	-0.01	1.0156	-2.6443	-0.0373	0.0941	-0.0642	0.3963	0.1377	0.2586	-2.2125
9	7.47	-0.01	1.4809	-3.7514	-0.0411	0.1018	-0.0599	0.4006	0.1419	0.2587	-2.1304
10	11.54	-0.01	2.2544	-5.8126	-0.0507	0.1250	-0.0587	0.3998	0.1418	0.2580	-1.9629
11	12.75	-0.01	2.6342	-6.7954	-0.0511	0.1327	-0.0570	0.3969	0.1419	0.2580	-1.7953
12	14.94	-0.01	3.5184	-9.0952	-0.0511	0.1376	-0.0595	0.4044	0.1504	0.2590	-1.6938
13	17.13	-0.02	4.1825	-10.7293	-0.0702	0.1727	-0.0608	0.4057	0.1490	0.2567	-1.6166
14	19.41	-0.02	4.8444	-12.7394	-0.0909	0.2015	-0.0592	0.4075	0.1481	0.2614	-1.5770
15	21.54	-0.02	5.4835	-14.2884	-0.1021	0.2193	-0.0611	0.4117	0.1447	0.2670	-1.5703
16	23.74	-0.02	6.0708	-15.2794	-0.1175	0.2392	-0.0595	0.4196	0.1460	0.2738	-1.5886
17	0.38	0.01	-0.0294	0.1521	-0.0347	0.0438	-0.0640	0.3478	0.1207	0.2671	-5.1047

LANGLEY RESEARCH CENTER (NASA) UNITARY PLAN WIND TUNNEL (UPWT)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST PART MACH REYNOLDS PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION
3 .61 2.96 3.0 45.0 M1.0F35 0.0 0 0 0 0 FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAM	CAF	XCP
1	-3.57	0.01	-0.7061	1.5304	-0.0045	0.0013	-0.0523	0.3551	0.1023	0.2528	-2.1680
2	-2.06	0.0	-1.0234	2.2544	-0.0064	-0.0034	-0.0547	0.3515	0.0975	0.2540	-2.2559
3	-0.99	0.01	-0.2245	0.5014	-0.0134	0.0222	-0.0554	0.3541	0.0976	0.2565	-2.4559
4	0.17	0.0	-0.0477	0.1592	-0.0170	0.0218	-0.0541	0.3561	0.1006	0.2553	-4.2223
5	1.13	0.0	0.1550	-0.2374	-0.0165	0.0136	-0.0548	0.3533	0.0992	0.2541	-1.5348
6	2.12	0.0	0.3691	-0.8344	-0.0118	0.0123	-0.0545	0.3526	0.0976	0.2550	-1.8241
7	4.24	0.0	0.7424	-1.3478	-0.0197	0.0241	-0.0539	0.3544	0.1039	0.2505	-1.9336
8	6.32	0.0	1.1344	-2.2171	-0.0287	0.0332	-0.0492	0.3654	0.1103	0.2551	-1.9040
9	4.02	-0.01	1.0471	-2.0539	-0.0277	0.0317	-0.0482	0.3572	0.1136	0.2536	-1.8183
10	10.02	-0.01	2.0941	-3.3387	-0.0226	0.0310	-0.0470	0.3965	0.1135	0.2550	-1.6901
11	12.04	-0.01	2.4284	-4.1713	-0.0494	0.0329	-0.0496	0.3739	0.1136	0.2603	-1.5085
12	14.01	-0.01	3.1506	-4.9247	-0.0650	0.0376	-0.0522	0.3764	0.1152	0.2637	-1.5185
13	16.06	-0.01	3.7741	-5.4264	-0.0744	0.0397	-0.0508	0.3851	0.1168	0.2683	-1.4890
14	19.14	-0.01	4.6648	-6.4151	-0.0822	0.0475	-0.0532	0.3946	0.1135	0.2805	-1.4870
15	21.23	-0.02	5.2784	-7.0383	-0.0760	0.0421	-0.0554	0.4038	0.1136	0.2902	-1.5312
16	23.30	-0.03	5.8588	-8.0885	-0.0455	0.0384	-0.0542	0.4154	0.1104	0.3055	-1.5295
17	0.06	0.01	-0.0383	0.1713	-0.0172	0.0206	-0.0551	0.3571	0.1024	0.2547	-4.7196

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	RECT REFN VALUES		PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
9	22.00	3.0	0.0	MINUS	0.0	0	0	0	0	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAH	CAF	XCP
1	-3.73	0.01	-0.7204	1.5664	-0.0044	-0.0012	-0.0564	0.3547	0.1040	0.2547	-2.1440
2	-2.17	0.0	-0.4328	0.9432	-0.0011	-0.0495	-0.0562	0.3555	0.1008	0.2547	-2.2724
3	-1.15	0.0	-0.2268	0.4936	0.0037	-0.0578	-0.0527	0.3565	0.0992	0.2573	-2.4343
4	-0.07	0.0	-0.0021	0.0004	-0.0026	-0.0455	-0.0552	0.3584	0.1007	0.2581	-4.2860
5	0.96	0.01	0.1852	-0.4062	-0.0110	-0.0348	-0.0547	0.3561	0.1006	0.2553	-1.4200
6	1.98	0.0	0.3936	-0.8631	-0.0034	-0.0361	-0.0544	0.3564	0.0992	0.2572	-1.8085
7	4.10	0.0	0.7783	-1.7093	-0.0065	-0.0296	-0.0536	0.3641	0.1055	0.2586	-1.8932
8	6.14	0.0	1.1754	-2.5790	0.0012	-0.0378	-0.0528	0.3745	0.1119	0.2626	-1.8565
9	8.30	0.01	1.6764	-3.6764	-0.0064	-0.0353	-0.0516	0.3874	0.1183	0.2641	-1.7706
10	10.39	0.01	2.0999	-3.9556	-0.0234	-0.0260	-0.0503	0.3874	0.1199	0.2675	-1.6836
11	12.54	0.01	2.5484	-5.6369	-0.0114	-0.0422	-0.0527	0.3849	0.1167	0.2682	-1.6003
12	14.46	0.01	3.1774	-6.9747	-0.0265	-0.0541	-0.0513	0.3902	0.1151	0.2751	-1.5381
13	16.47	0.02	3.7761	-8.3529	-0.0251	-0.0736	-0.0496	0.3944	0.1119	0.2825	-1.4970
14	18.46	0.02	4.3961	-9.8496	-0.0333	-0.0747	-0.0461	0.4026	0.1071	0.2955	-1.4792
15	21.11	0.02	5.2974	-11.9447	-0.0309	-0.1315	-0.0485	0.4138	0.1039	0.3049	-1.4726
16	23.38	0.02	6.0764	-13.8341	-0.0346	-0.1493	-0.0486	0.4265	0.0959	0.3306	-1.4855
17	-0.08	0.01	-0.0554	0.1482	-0.0185	-0.0266	-0.0512	0.3586	0.1023	0.2563	-3.5449

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)
HAWTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	AXIS=0	RN	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
3	23	3.95	3.0	45.0	BI=0P35	0.0	0	0	0	J	FIXED.-

POINT	ALPHA	BETA	CA	CLA	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-3.01	0.01	-0.4353	0.7367	-0.0154	0.0124	-0.0325	0.2802	0.0676	0.2126	-1.7491
2	-1.98	0.0	-0.3132	0.5544	0.0025	-0.0147	-0.0321	0.2769	0.0676	0.2093	-1.8163
3	-0.96	0.01	-0.1947	0.3159	-0.0185	0.0125	-0.0318	0.2763	0.0676	0.2087	-1.9304
4	0.19	0.0	-0.0675	0.0969	-0.0126	0.0147	-0.0367	0.2750	0.0676	0.2074	-7.5333
5	1.24	0.0	0.1013	-0.2229	-0.0200	0.0145	-0.0364	0.2758	0.0676	0.2082	-1.3869
6	2.22	0.0	0.3135	-0.4734	-0.0138	0.0130	-0.0308	0.2779	0.0676	0.2103	-1.5116
7	4.32	0.0	0.7442	-1.0150	-0.0295	0.0070	-0.0354	0.2842	0.0676	0.2166	-1.5634
8	6.36	0.0	1.1944	-1.5015	-0.0178	0.0217	-0.0345	0.2898	0.0677	0.2219	-1.5235
9	8.43	0.0	1.6514	-1.9857	-0.0156	0.0300	-0.0337	0.2965	0.0698	0.2267	-1.4562
10	10.50	0.0	1.7723	-2.4816	-0.0275	0.0173	-0.0379	0.3044	0.0698	0.2351	-1.4002
11	12.57	-0.01	2.2257	-3.0144	-0.0214	0.0274	-0.0420	0.3163	0.0698	0.2465	-1.3544
12	14.67	0.0	2.7110	-3.5743	-0.0444	0.0320	-0.0441	0.3316	0.0676	0.2640	-1.3553
13	16.77	-0.01	3.2750	-4.5005	-0.0432	0.0195	-0.0501	0.3504	0.0676	0.2828	-1.3738
14	18.90	-0.01	3.8[illegible]	-5.4734	-0.0557	0.0284	-0.0541	0.3702	0.0434	0.3048	-1.4035
15	20.98	-0.01	4.4[illegible]	-6.3971	-0.0333	-0.0140	-0.0528	0.3876	0.0612	0.3264	-1.4276
16	23.17	-0.01	5.2140	-7.5794	-0.0547	0.0096	-0.0566	0.4100	0.0591	0.3509	-1.4537
17	0.18	0.0	-0.0678	0.0644	-0.0119	0.0074	-0.0367	0.2735	0.0655	0.2080	-6.2077

LANGLEY RESEARCH CENTER (NASA) UNITARY PLAN WIND TUNNEL (UPWT)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RATIO-M	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
3	24	3.95	3.0	0.0	81-0F35	0.0	0	0	0	0	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-3.61	0.0	-0.5537	0.9660	0.0113	-0.0560	-0.0379	0.2772	0.0676	0.2096	-1.7446
2	-2.10	0.0	-0.3202	0.5650	0.0135	-0.0543	-0.0351	0.2737	0.0677	0.2060	-1.8371
3	-1.07	0.0	-0.1715	0.3375	0.0152	-0.0508	-0.0333	0.2725	0.0677	0.2051	-1.9679
4	-0.02	0.0	-0.0148	0.0603	-0.0030	-0.0224	-0.0314	0.2732	0.0677	0.2055	-4.0990
5	1.03	0.0	0.1520	-0.2023	-0.0009	-0.0250	-0.0311	0.2741	0.0677	0.2064	-1.3309
6	2.01	0.01	0.2867	-0.4372	-0.0197	-0.0006	-0.0308	0.2763	0.0676	0.2087	-1.5249
7	4.11	0.0	0.6294	-0.9566	-0.0159	-0.0633	-0.0352	0.2840	0.0676	0.2164	-1.5354
8	6.15	0.0	0.9883	-1.4926	0.0043	-0.0293	-0.0396	0.2903	0.0677	0.2226	-1.4898
9	8.26	0.0	1.3618	-1.9545	0.0012	-0.0348	-0.0386	0.2994	0.0678	0.2297	-1.4352
10	10.30	0.0	1.7526	-2.4026	-0.0065	-0.0445	-0.0427	0.3075	0.0678	0.2377	-1.3712
11	12.38	0.01	2.1564	-2.8221	-0.0117	-0.0493	-0.0415	0.3167	0.0678	0.2469	-1.3293
12	14.46	0.01	2.5585	-3.2406	-0.0171	-0.0556	-0.0455	0.3310	0.0676	0.2634	-1.3092
13	16.52	0.01	3.1589	-3.1499	-0.0189	-0.0659	-0.0547	0.3470	0.0655	0.2815	-1.3141
14	14.71	0.01	3.7122	-3.9134	-0.0011	-0.1269	-0.0479	0.3641	0.0634	0.3007	-1.3236
15	20.76	0.01	4.2495	-4.7865	-0.0215	-0.1184	-0.0465	0.3819	0.0591	0.3228	-1.3412
16	22.99	0.01	4.9760	-5.7886	-0.0154	-0.0942	-0.0607	0.4009	0.0548	0.3461	-1.3655
17	-0.01	0.0	0.0005	0.0543	-0.0031	-0.0384	-0.0367	0.2736	0.0634	0.2102	108.6000
18	-0.01	0.0	0.0005	0.0543	-0.0031	-0.0384	-0.0367	0.2736	0.0655	0.2081	108.6000

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RNI/6-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
3	25	4.63	3.0	0.0	M1=0F35	0.0	0	0	0	0	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-3.24	0.0	-0.4575	0.0599	0.0042	-0.0222	-0.0345	0.2522	0.0498	0.2024	-1.4424
2	-1.75	0.0	-0.2617	0.0380	0.0024	-0.0147	-0.0312	0.2487	0.0498	0.1964	-1.5703
3	-0.73	0.0	-0.0934	0.0174	0.0023	-0.0136	-0.0290	0.2492	0.0498	0.1994	-1.8207
4	0.34	0.0	0.0454	-0.0290	0.0023	-0.0139	-0.0333	0.2488	0.0498	0.1990	-0.5922
5	1.35	0.0	0.1962	-0.0260	-0.0257	0.0148	-0.0330	0.2505	0.0525	0.1980	-1.1224
6	2.35	0.0	0.3343	-0.0453	0.0003	-0.0159	-0.0326	0.2501	0.0525	0.1976	-1.1981
7	4.44	0.0	0.6521	-0.0929	-0.0011	-0.0137	-0.0318	0.2553	0.0525	0.2028	-1.2706
8	6.46	0.0	0.9644	-0.1295	-0.0027	-0.0115	-0.0376	0.2439	0.0525	0.2114	-1.2645
9	8.53	0.0	1.2941	-0.1733	-0.0040	-0.0203	-0.0366	0.2737	0.0525	0.2212	-1.2395
10	10.56	0.0	1.6055	-0.2063	-0.0150	-0.0298	-0.0423	0.2843	0.0525	0.2318	-1.2173
11	12.61	0.0	2.0467	-0.2869	0.0092	-0.0773	-0.0479	0.2968	0.0525	0.2443	-1.2328
12	14.70	0.0	2.5147	-0.3714	0.0087	-0.0934	-0.0535	0.3096	0.0525	0.2571	-1.2601
13	16.76	0.0	2.9635	-0.4545	0.0113	-0.1133	-0.0523	0.3244	0.0498	0.2746	-1.3054
14	18.86	0.01	3.5000	-0.5545	-0.0107	-0.1024	-0.0444	0.3424	0.0470	0.2954	-1.3550
15	20.90	0.01	4.0124	-0.6323	-0.0016	-0.0940	-0.0565	0.3634	0.0443	0.3191	-1.3971
16	23.07	0.01	4.7471	-0.7495	-0.0202	-0.0864	-0.0616	0.3853	0.0359	0.3444	-1.4303
17	0.34	0.0	0.0469	-0.0133	0.0015	-0.0179	-0.0334	0.2510	0.0470	0.2040	-0.2745

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	DATA	MACH	REIN=6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
3	24	0.63	3.0	45.0	B1=0F35	0.0	0	0	0	0	FIXED

POINT	ALPHA	HFTA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-2.97	0.0	-0.4534	0.4577	0.0055	-0.0040	-0.0345	0.2559	0.0498	0.2061	-1.4489
2	-1.47	0.0	-0.2342	0.2750	-0.0050	0.0057	-0.0340	0.2516	0.0498	0.2018	-1.6037
3	-0.46	0.0	-0.0255	0.1004	-0.0119	0.0140	-0.0337	0.2507	0.0498	0.2009	-1.8542
4	0.54	0.0	0.0564	-0.0218	-0.0190	0.0205	-0.0333	0.2539	0.0525	0.1984	-0.3789
5	1.61	0.0	0.2014	-0.2203	-0.0266	0.0277	-0.0330	0.2521	0.0525	0.1996	-1.0909
6	2.60	0.0	0.3264	-0.3837	-0.0152	0.0247	-0.0327	0.2522	0.0525	0.1997	-1.1665
7	4.66	0.0	0.6346	-0.8026	-0.0114	0.0154	-0.0366	0.2540	0.0525	0.2055	-1.2608
8	6.72	0.0	0.9807	-1.2670	-0.0106	0.0104	-0.0370	0.2647	0.0525	0.2122	-1.2925
9	5.78	0.0	1.31-7	-1.[illegible]	-0.0070	-0.0021	-0.0437	0.2710	0.0525	0.2185	-1.2669
10	10.83	0.0	1.7095	-2.1413	-0.0276	0.0149	-0.0427	0.2840	0.0525	0.2315	-1.2526
11	12.87	-0.01	2.1145	-2.6999	0.0076	-0.0440	-0.0484	0.2952	0.0525	0.2427	-1.2721
12	14.95	0.0	2.5987	-3.2513	-0.0336	0.0049	-0.0474	0.3112	0.0525	0.2587	-1.3281
13	17.01	-0.01	3.1276	-3.9523	-0.0726	-0.0054	-0.0530	0.3320	0.0498	0.2822	-1.3914
14	19.11	-0.01	3.7[illegible]	-5.336	-0.0249	-0.0035	-0.0546	0.3504	0.0470	0.3034	-1.4403
15	21.13	-0.01	4.2450	-6.3573	-0.0295	-0.0054	-0.0574	0.3744	0.0443	0.3301	-1.4796
16	23.29	-0.01	4.9232	-7.4230	-0.0312	-0.0099	-0.0582	0.3973	0.0416	0.3557	-1.5078
17	0.59	0.0	0.0547	-0.0194	0.0166	-0.0250	-0.0333	0.2508	0.0470	0.2038	-0.3543

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	MACH-A	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
3	27	2.30	3.0	0.0	R1+0F35	0.0	0	-20	0	-20	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-3.48	0.02	-2.8022	6.4086	-0.0365	-0.0210	-0.0306	1.1550	0.1481	1.0069	-3.6149
2	-2.13	0.01	-2.4141	6.8326	-0.0263	-0.0321	-0.0443	1.0943	0.1496	0.9447	-3.8166
3	-1.11	0.02	-2.1152	6.3961	-0.0321	-0.0330	-0.0474	1.0540	0.1525	0.9015	-3.9694
4	-0.01	0.02	-1.8178	7.9274	-0.0503	0.0010	-0.0438	1.0106	0.1553	0.8553	-4.1557
5	-0.03	0.02	-1.5079	7.4350	-0.0364	-0.0171	-0.0434	1.0117	0.1553	0.8564	-4.1598
6	1.04	0.01	-1.2044	7.0824	-0.0272	-0.0253	-0.0436	0.9701	0.1580	0.8121	-4.3849
7	2.03	0.01	-0.9159	7.0579	-0.0319	-0.0119	-0.0503	0.9329	0.1623	0.7706	-4.6558
8	4.15	0.02	-0.3197	6.1412	-0.0609	0.0106	-0.0496	0.8517	0.1680	0.6837	-5.5341
9	6.25	0.01	0.2888	5.2036	-0.0371	0.0079	-0.0561	0.7849	0.1694	0.5995	-7.8036
10	8.37	0.02	0.8735	4.2564	-0.0375	-0.0155	-0.0586	0.6851	0.1693	0.5158	-24.5326
11	10.49	0.02	1.4525	3.2767	-0.0564	0.0358	-0.0577	0.6057	0.1652	0.4405	8.1409
12	12.66	0.02	2.0374	2.1482	-0.0466	-0.0044	-0.0597	0.5303	0.1708	0.3595	1.9391
13	14.49	0.02	2.5114	1.0667	-0.0338	-0.0816	-0.0581	0.4542	0.1709	0.2833	0.5889
14	17.08	0.03	3.2473	0.1536	-0.0349	-0.1033	-0.0462	0.3986	0.1708	0.2278	0.0617
15	19.35	0.03	3.8295	-0.5477	-0.0375	-0.1316	-0.0411	0.3528	0.1666	0.1862	-0.1750
16	21.44	0.03	4.3771	-1.1156	-0.0262	-0.1570	-0.0465	0.3156	0.1610	0.1546	-0.3801
17	23.72	0.03	4.9676	-1.6874	-0.0304	-0.1501	-0.0448	0.2862	0.1638	0.1224	-0.4282
18	-0.03	0.01	-1.9054	7.4203	-0.0085	-0.0710	-0.0472	1.0100	0.1554	0.8546	-4.1567

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST 3 PART 2B MACH 3.0 REYNOLDS NO/FT 6.0E 6 PHI 0.0 CONF 81-0F35 L 0.0 DEL1 0 DEL2 -20 DEL3 0 DEL4 -20 TRANSITION FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAN	CAF	XCP
1	-3.78	0.01	-2.3016	6.3681	-0.0104	-0.0875	-0.0434	1.0304	0.1143	0.9161	-3.5054
2	-2.28	0.01	-2.0364	7.5663	-0.0032	-0.0453	-0.0438	0.9781	0.1143	0.8638	-3.7146
3	-1.23	0.01	-1.8242	7.1614	-0.0131	-0.0720	-0.0427	0.9384	0.1159	0.8225	-3.9158
4	-0.16	0.01	-1.6371	6.7884	-0.0232	-0.0583	-0.0463	0.8979	0.1175	0.7804	-4.1469
5	0.88	0.01	-1.4501	6.3916	-0.0160	-0.0466	-0.0468	0.8576	0.1176	0.7400	-4.4877
6	1.91	0.01	-1.2659	6.0136	-0.0077	-0.0422	-0.0458	0.8212	0.1191	0.7021	-4.7586
7	4.00	0.01	-0.8865	5.2075	-0.0200	-0.0331	-0.0530	0.7447	0.1239	0.6208	-6.0102
8	5.09	0.01	-0.6878	4.8535	-0.0296	-0.0299	-0.0562	0.6696	0.1288	0.5408	-9.9441
9	6.21	0.01	-0.4884	3.4648	-0.0336	-0.0235	-0.0553	0.5909	0.1304	0.4605	74.6689
10	10.32	0.01	0.4155	2.4922	-0.0235	-0.0449	-0.0581	0.5194	0.1288	0.3906	4.0491
11	12.45	0.01	1.1959	1.9209	-0.0217	-0.0477	-0.0529	0.4605	0.1288	0.3317	1.3543
12	14.61	0.02	1.7290	1.0491	-0.0321	-0.0647	-0.0476	0.4302	0.1287	0.3015	0.6068
13	16.75	0.02	2.2401	0.5583	-0.0319	-0.0969	-0.0580	0.4068	0.1287	0.2781	0.2470
14	18.94	0.02	2.6030	0.0506	-0.0299	-0.1167	-0.0486	0.3816	0.1240	0.2576	0.0181
15	21.03	0.02	3.0197	-0.4319	-0.0323	-0.1515	-0.0512	0.3617	0.1223	0.2394	-0.1381
16	23.26	0.02	3.4197	-1.1157	-0.0214	-0.1906	-0.0536	0.3409	0.1224	0.2185	-0.2846
17	-0.14	0.01	-1.6374	6.7922	-0.0097	-0.0798	-0.0463	0.8994	0.1175	0.7819	-4.1481

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RNI0-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
3	29	3.95	3.0	0.0	W1=0F35	0.0	0	-20	0	-20	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-3.56	0.0	-1.4376	5.2795	0.0061	-0.0907	-0.0319	0.8240	0.0667	0.7573	-3.4169
2	-2.13	0.0	-1.5785	5.8103	0.0113	-0.0964	-0.0314	0.7750	0.0667	0.7083	-3.6809
3	-1.11	0.0	-1.4010	5.1759	0.0163	-0.1019	-0.0363	0.7396	0.0667	0.6729	-3.9086
4	-0.06	0.0	-1.2266	5.1372	0.0218	-0.1041	-0.0361	0.7049	0.0688	0.6361	-4.1943
5	0.97	0.0	-1.0357	4.7984	0.0063	-0.0741	-0.0358	0.6694	0.0688	0.6006	-4.5452
6	1.96	0.0	-0.8863	4.4519	0.0117	-0.0803	-0.0354	0.6347	0.0688	0.5659	-5.0334
7	4.06	0.0	-0.5071	3.7106	0.0024	-0.0669	-0.0400	0.5603	0.0710	0.4893	-7.3178
8	6.12	0.01	-0.0919	2.9213	-0.0077	-0.0527	-0.0392	0.4913	0.0710	0.4203	-31.7876
9	8.18	0.0	0.3803	2.3363	-0.0065	-0.0559	-0.0343	0.4467	0.0731	0.3756	7.6733
10	10.25	0.0	0.8889	1.9108	0.0075	-0.0968	-0.0373	0.4282	0.0731	0.3551	2.7741
11	12.33	0.01	1.3546	1.6699	-0.0092	-0.0916	-0.0361	0.4181	0.0731	0.3450	1.5826
12	14.41	0.01	1.8378	1.4488	-0.0062	-0.1093	-0.0401	0.4169	0.0731	0.3438	1.0076
13	16.54	0.01	1.8346	1.2287	-0.0044	-0.1256	-0.0441	0.4162	0.0731	0.3431	0.6683
14	18.66	0.01	2.2816	0.9471	-0.0035	-0.1551	-0.0428	0.4181	0.0709	0.3472	0.4151
15	20.71	0.01	2.7401	0.6371	0.0104	-0.2250	-0.0414	0.4200	0.0688	0.3512	0.2325
16	22.86	0.01	3.2597	0.2402	-0.0191	-0.1707	-0.0556	0.4173	0.0667	0.3506	0.0737
17	-0.06	0.0	-1.2226	5.1285	0.0267	-0.1213	-0.0360	0.7021	0.0688	0.6333	-4.1941

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	REYNO-K	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
3	3B	4.63	3.0	0.0	M1=0F35	0.0	0	-20	0	-20	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAH	CAF	XCP
1	-3.27	0.0	-1.6292	5.5279	0.0110	-0.0744	-0.0274	0.7465	0.0485	0.6980	-3.3938
2	-1.75	0.0	-1.3744	5.2972	-0.0118	-0.0450	-0.0269	0.6979	0.0485	0.6494	-3.7073
3	-0.74	0.0	-1.2234	4.8171	0.0207	-0.0900	-0.0286	0.6657	0.0485	0.6172	-3.9374
4	0.31	0.0	-1.0203	4.4508	-0.0027	-0.0553	-0.0329	0.6299	0.0485	0.5814	-4.3823
5	1.33	0.0	-0.8531	4.1421	0.0025	-0.0654	-0.0326	0.5966	0.0485	0.5481	-4.8554
6	2.33	0.0	-0.7196	3.8649	0.0057	-0.0652	-0.0323	0.5617	0.0512	0.5105	-5.4435
7	4.40	0.0	-0.3693	3.1496	0.0153	-0.0763	-0.0315	0.4882	0.0512	0.4370	-9.6525
8	6.44	0.0	0.0304	2.5521	0.0216	-0.0832	-0.0375	0.4365	0.0512	0.3853	83.9528
9	8.51	0.0	0.3568	2.1866	-0.0107	-0.0420	-0.0366	0.4139	0.0512	0.3627	6.0925
10	10.54	0.0	0.6647	1.9468	0.0038	-0.0786	-0.0356	0.4074	0.0512	0.3562	2.8484
11	12.58	0.0	1.0112	1.7491	0.0150	-0.1278	-0.0345	0.4030	0.0512	0.3518	1.7297
12	14.66	0.01	1.3353	1.5917	-0.0014	-0.1245	-0.0401	0.4056	0.0539	0.3519	1.1928
13	16.75	0.01	1.7056	1.3548	0.0091	-0.1554	-0.0389	0.4100	0.0512	0.3588	0.7943
14	18.84	0.01	2.1017	1.0717	-0.0067	-0.1530	-0.0377	0.4173	0.0512	0.3661	0.5098
15	20.85	0.01	2.4910	0.7937	0.0066	-0.1516	-0.0432	0.4244	0.0512	0.3732	0.3188
16	22.49	0.01	2.9576	0.4355	-0.0090	-0.1314	-0.0486	0.4266	0.0457	0.3809	0.1472
17	0.29	0.0	-1.0466	4.4824	-0.0026	-0.0555	-0.0330	0.6303	0.0485	0.5818	-4.2911

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RN/FT-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
3	31	2.36	2.5	45.0	B1.0F35	0.0	20	-20	20	-20	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-3.56	0.06	-3.4496	13.1011	-0.0294	-0.0253	-0.0255	1.8509	0.1788	1.6720	-3.7976
2	-2.47	0.05	-3.1400	12.3779	-0.0232	-0.0240	-0.0252	1.7735	0.1768	1.5967	-3.9420
3	-1.05	0.05	-2.9219	11.9025	-0.0355	-0.0161	-0.0249	1.7215	0.1807	1.5403	-4.0735
4	0.02	0.05	-2.7283	11.4716	-0.0474	0.0112	-0.0294	1.6679	0.1808	1.4862	-4.2047
5	1.07	0.05	-2.5285	11.0289	-0.0459	0.0267	-0.0265	1.6143	0.1827	1.4316	-4.3618
6	2.15	0.05	-2.3339	10.6137	-0.0423	0.0287	-0.0249	1.5612	0.1826	1.3786	-4.5547
7	4.14	0.04	-1.9466	9.7619	-0.0456	0.0227	-0.0331	1.4501	0.1806	1.2695	-5.0195
8	6.20	0.04	-1.4636	8.5799	-0.0568	0.0465	-0.0373	1.3146	0.1825	1.1321	-5.9434
9	8.32	0.04	-0.9822	7.3541	-0.0631	0.0524	-0.0450	1.1888	0.1824	1.0042	-7.9644
10	10.36	0.04	-0.3681	6.4516	-0.0647	0.0627	-0.0450	1.0796	0.1843	0.8953	-17.5252
11	12.49	0.03	0.2024	5.9776	-0.0662	0.0501	-0.0437	1.0011	0.1862	0.8149	24.0516
12	14.64	0.03	0.7979	5.6269	-0.0433	0.0681	-0.0329	0.9385	0.1882	0.7503	6.2991
13	16.77	0.03	1.3929	4.8933	-0.0725	0.0157	-0.0361	0.8859	0.1863	0.6996	3.1469
14	18.98	0.03	2.0291	3.7143	-0.0776	0.0023	-0.0344	0.8384	0.1884	0.6520	1.8350
15	21.03	0.03	2.6493	3.0056	-0.0848	0.0250	-0.0329	0.7927	0.1865	0.6062	1.1345
16	23.28	0.03	3.3235	2.2132	-0.0905	0.0073	-0.0453	0.7417	0.1826	0.5591	0.6659
17	0.02	0.03	-2.7392	11.4605	-0.0465	0.0269	-0.0294	1.6665	0.1807	1.4858	-4.2004

PAGE 1 OF 1
SHEET 1 OF 1

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)
MARTIN MISSILE TAIL EFFECTS DATA

TEST 3 PART 3P PALM 2.66 MA10=6 3.0 PHI 45.0 CONF B1#0F35 L 0.0 DEL1 20 DEL2 -20 DEL3 20 DEL4 -20 TRANSITION FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-3.63	0.05	-2.9451	11.0360	-0.0197	-0.0389	-0.0249	1.4178	0.1247	1.4931	-3.6978
2	-2.11	0.05	-2.6942	10.4344	-0.0159	-0.0434	-0.0295	1.5448	0.1247	1.4701	-3.8676
3	-1.05	0.05	-2.4450	10.0316	-0.0271	-0.0334	-0.0332	1.4962	0.1246	1.3696	-4.0215
4	0.02	0.05	-2.3041	9.6332	-0.0284	-0.0219	-0.0330	1.4433	0.1262	1.3171	-4.1882
5	1.07	0.05	-2.1140	9.2572	-0.0309	-0.0095	-0.0367	1.3927	0.1262	1.2665	-4.3707
6	2.01	0.05	-1.9231	8.8733	-0.0350	-0.0113	-0.0364	1.3424	0.1263	1.2161	-4.6141
7	4.17	0.05	-1.5461	8.1327	-0.0414	-0.0019	-0.0319	1.2318	0.1276	1.1040	-5.2602
8	4.24	0.04	-1.0450	7.0643	-0.0402	-0.0040	-0.0352	1.1080	0.1274	0.9831	-6.6369
9	4.35	0.04	-0.5923	6.1815	-0.0517	0.0227	-0.0345	1.0043	0.1310	0.6773	-10.4024
10	10.45	0.04	-0.0726	5.3718	-0.0553	0.0285	-0.0335	0.9357	0.1310	0.8047	-73.9896
11	12.58	0.04	0.4421	4.7477	-0.0502	0.0193	-0.0283	0.8645	0.1310	0.7535	10.8294
12	14.73	0.04	0.9505	4.2797	-0.0719	0.0141	-0.0309	0.8445	0.1327	0.7118	4.5026
13	16.89	0.03	1.4799	3.7554	-0.0666	0.0069	-0.0295	0.8125	0.1326	0.6799	2.5343
14	19.06	0.03	1.9972	3.2522	-0.0687	-0.0394	-0.0400	0.9046	0.1311	0.7735	1.6337
15	21.15	0.03	2.5139	2.7634	-0.0546	-0.0275	-0.0357	0.7632	0.1294	0.6338	1.0993
16	23.37	0.03	3.1266	2.1264	-0.0714	-0.0340	-0.0451	0.7389	0.1278	0.6111	0.6783
17	0.02	0.05	-2.7992	9.6362	-0.0294	-0.0149	-0.0329	1.4460	0.1263	1.3177	-4.1911

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RNI0=6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
3	33	3.95	3.0	45.0	H1=0F35	0.0	20	-20	20	-20	FIXED

POINT	ALPHA	BETA	CA	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-3.45	0.03	-2.3642	8.5294	-0.0126	-0.0359	-0.0359	1.2929	0.0633	1.2295	-3.6077
2	-1.90	0.03	-2.0841	7.9984	-0.0309	-0.0120	-0.0355	1.2290	0.0633	1.1657	-3.8371
3	-0.91	0.03	-1.9175	7.6536	-0.0427	0.0107	-0.0300	1.1965	0.0633	1.1215	-3.9923
4	0.16	0.03	-1.7048	7.2521	-0.0417	0.0082	-0.0369	1.1369	0.0633	1.0727	-4.2415
5	1.14	0.03	-1.5492	6.9998	-0.0493	0.0272	-0.0347	1.0855	0.0654	1.0211	-4.4538
6	2.16	0.03	-1.3751	6.5216	-0.0431	0.0197	-0.0292	1.0352	0.0654	0.9698	-4.7427
7	4.28	0.02	-0.9965	5.7699	-0.0312	-0.0078	-0.0234	0.9361	0.0654	0.8707	-5.8018
8	6.32	0.02	-0.5828	5.0218	-0.0507	0.0278	-0.0279	0.8557	0.0675	0.7882	-8.6167
9	8.39	0.02	-0.1745	4.3608	-0.0408	0.0109	-0.0271	0.7990	0.0675	0.7315	-24.9902
10	10.45	0.02	0.1628	4.0117	-0.0439	-0.0003	-0.0209	0.7672	0.0697	0.6975	21.9457
11	12.52	0.02	0.5459	3.7375	-0.0476	-0.0085	-0.0198	0.7555	0.0697	0.6858	6.8466
12	14.62	0.02	0.9168	3.5341	-0.0514	-0.0228	-0.0239	0.7545	0.0697	0.6848	3.8632
13	16.71	0.02	1.2872	3.3795	-0.0567	-0.0215	-0.0279	0.7659	0.0675	0.6984	2.6255
14	18.87	0.02	1.7041	3.2207	-0.0501	-0.0406	-0.0318	0.7848	0.0675	0.7173	1.8899
15	20.88	0.02	2.1141	3.0359	-0.0417	-0.0496	-0.0306	0.8059	0.0654	0.7405	1.4333
16	23.00	0.02	2.5033	2.7682	-0.0509	-0.1032	-0.0342	0.8195	0.0633	0.7562	1.0633
17	0.16	0.03	-1.7150	7.2439	-0.0410	-0.0011	-0.0349	1.1312	0.0654	1.0658	-4.2362
18	0.15	0.03	-1.7263	7.2632	-0.0276	0.0002	-0.0349	1.1328	0.0654	1.0674	-4.2074

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)

PAGE 1 OF 1
SHEET 1 OF 1

GAMTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	MAG-B	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
3	34	4.63	3.0	45.0	M1=JF35	0.0	20	-20	20	-20	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	ACP
1	-3.00	0.03	-2.1066	7.5786	-0.0311	0.0116	-0.0329	1.1769	0.0442	1.1327	-3.5970
2	-1.53	0.02	-1.6466	7.3774	-0.0331	0.0130	-0.0325	1.1140	0.0442	1.0748	-3.8455
3	-0.46	0.02	-1.4629	6.7591	-0.0279	-0.0107	-0.0321	1.0735	0.0442	1.0293	-4.0837
4	0.58	0.02	-1.4862	6.3665	-0.0404	0.0012	-0.0318	1.0225	0.0442	0.9783	-4.3390
5	1.58	0.02	-1.2919	5.9913	-0.0467	0.0203	-0.0316	0.9744	0.0442	0.9302	-4.6376
6	2.59	0.02	-1.1010	5.6293	-0.0398	0.0152	-0.0313	0.9272	0.0442	0.8830	-5.1129
7	4.55	0.02	-0.7327	4.9484	-0.0379	0.0002	-0.0240	0.8400	0.0442	0.7958	-6.7536
8	6.49	0.02	-0.3766	4.3536	-0.0564	0.0249	-0.0233	0.7735	0.0442	0.7293	-11.5052
9	8.75	0.02	-0.0491	3.9014	-0.0562	0.0229	-0.0225	0.7323	0.0469	0.6854	-81.1089
10	10.74	0.01	0.2218	3.6404	-0.0320	-0.0246	-0.0215	0.7204	0.0469	0.6735	12.9274
11	12.83	0.02	0.5747	3.4846	-0.0460	-0.0240	-0.0206	0.7205	0.0469	0.6736	5.9955
12	14.90	0.02	0.8802	3.3679	-0.0415	-0.0143	-0.0202	0.7402	0.0469	0.6933	3.8263
13	16.97	0.02	1.1832	3.3102	-0.0416	-0.0499	-0.0318	0.7680	0.0469	0.7211	2.7977
14	19.06	0.02	1.5016	3.1706	-0.0414	-0.0698	-0.0306	0.7978	0.0469	0.7509	2.0570
15	21.06	0.02	1.8282	2.9421	-0.0423	-0.0853	-0.0361	0.8154	0.0442	0.7712	1.5274
16	23.20	0.02	2.3911	2.8117	-0.0469	-0.0844	-0.0481	0.8192	0.0415	0.7777	1.0968
17	0.57	0.02	-1.4621	6.3443	-0.0405	0.0013	-0.0318	1.0243	0.0415	0.9828	-4.3392

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	WAVE	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
3	35	2.36	2.5	45.0	B1+0F34	0.0	20	-20	20	-20	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-3.60	0.06	-3.7206	14.5746	0.0004	-0.0374	-0.0260	2.0603	0.1655	1.8948	-3.9173
2	-2.07	0.05	-3.3434	13.2442	-0.0024	-0.0224	-0.0249	1.9738	0.1673	1.8065	-4.0567
3	-1.06	0.05	-3.1717	13.2165	-0.0004	-0.0144	-0.0340	1.9171	0.1691	1.7480	-4.1670
4	0.0	0.05	-2.9715	12.7513	0.0025	-0.0253	-0.0337	1.8523	0.1708	1.6815	-4.2911
5	1.06	0.05	-2.7747	12.2726	0.0048	-0.0213	-0.0336	1.7876	0.1724	1.6152	-4.4150
6	2.06	0.05	-2.5926	11.8204	-0.0051	-0.0215	-0.0376	1.7283	0.1741	1.5542	-4.5593
7	4.15	0.05	-2.1341	10.8763	-0.0032	-0.0509	-0.0372	1.5782	0.1725	1.4057	-4.9971
8	6.23	0.04	-1.6006	9.8257	-0.0309	0.0230	-0.0452	1.4171	0.1742	1.2379	-5.8271
9	8.32	0.04	-1.0521	8.6059	-0.0549	0.0957	-0.0446	1.2667	0.1826	1.0836	-7.6665
10	10.42	0.04	-0.4386	6.8553	-0.0485	0.0567	-0.0396	1.1317	0.1842	0.9475	-15.6229
11	12.55	0.03	0.1861	5.9175	-0.0560	0.0654	-0.0257	1.0334	0.1860	0.8474	31.7977
12	14.69	0.03	0.7930	5.2086	-0.0589	0.0445	-0.0243	0.9560	0.1860	0.7700	6.5054
13	16.87	0.03	1.3843	4.4733	-0.0511	0.0362	-0.0188	0.8867	0.1860	0.7027	3.2314
14	19.05	0.03	2.0394	3.8395	-0.0565	0.0496	-0.0172	0.8297	0.1860	0.6437	1.8165
15	21.16	0.03	2.6757	3.2271	-0.0556	0.0222	-0.0325	0.7711	0.1859	0.5852	1.0940
16	23.44	0.03	3.3478	1.9744	-0.0795	0.0453	-0.0309	0.7008	0.1826	0.5182	0.5811
17	0.0	0.06	-2.9695	12.7629	-0.0183	-0.0223	-0.0295	1.8509	0.1708	1.6801	-4.2988

LANGLEY RESEARCH CENTER (NASA) UNITARY PLAN WIND TUNNEL (UPWT)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST 3 PART 3A MACH 2.60 RN/D=0 3.0 PHI 45.0 CONF B1=OF3A L 0.0 DEL1 20 DEL2 -20 DEL3 20 DEL4 -20 TRANSITION FIXED

POINT	ALPHA	BETA	CN	CLN	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-3.41	0.05	-3.1910	12.2508	-0.0148	-0.0516	-0.0410	1.7946	0.1145	1.6801	-3.8392
2	-2.07	0.06	-2.0021	11.5407	-0.0164	-0.0554	-0.0407	1.7114	0.1161	1.5953	-4.0043
3	-1.04	0.06	-2.0661	11.0461	-0.0270	-0.0252	-0.0405	1.6486	0.1161	1.5325	-4.1457
4	0.02	0.05	-2.4708	10.5415	-0.0134	-0.0502	-0.0403	1.5822	0.1176	1.4646	-4.2826
5	1.05	0.05	-2.2605	10.0994	-0.0139	-0.0504	-0.0401	1.5144	0.1193	1.3951	-4.4678
6	2.08	0.05	-2.0653	9.6867	-0.0249	-0.0239	-0.0399	1.4525	0.1224	1.3301	-4.6805
7	4.17	0.05	-1.6595	8.7504	-0.0349	-0.0204	-0.0355	1.3201	0.1224	1.1977	-5.2827
8	6.25	0.05	-1.1511	7.5467	-0.0497	0.0120	-0.0350	1.1792	0.1272	1.0520	-6.5909
9	8.48	0.06	-0.6862	6.5006	-0.0501	0.0136	-0.0343	1.0703	0.1304	0.9399	-9.9376
10	10.46	0.06	-0.1049	5.6557	-0.0547	0.0142	-0.0293	0.9804	0.1337	0.8467	-54.0521
11	12.58	0.06	0.4147	5.0378	-0.0524	0.0206	-0.0207	0.9169	0.1336	0.7833	12.1471
12	14.73	0.06	0.9237	4.4585	-0.0553	0.0150	-0.0189	0.8564	0.1337	0.7311	4.8269
13	16.88	0.06	1.4587	3.8802	-0.0699	0.0151	-0.0176	0.8214	0.1336	0.6880	2.6283
14	19.06	0.03	1.9443	3.3952	-0.0528	0.0078	-0.0281	0.7815	0.1337	0.6478	1.6532
15	21.16	0.03	2.5340	2.7541	-0.0566	-0.0113	-0.0267	0.7523	0.1320	0.6203	1.0867
16	23.41	0.03	3.1659	2.0414	-0.0766	0.0129	-0.0292	0.7196	0.1304	0.5892	0.6448
17	0.02	0.06	-2.4758	10.6011	-0.0236	-0.0464	-0.0363	1.5804	0.1193	1.4611	-4.2819

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	WALL-M	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
3	37	3.95	3.0	45.0	B1=0F34	0.0	20	-20	20	-20	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-3.42	0.03	-2.4364	9.1918	0.0192	-0.0917	-0.0354	1.3882	0.0625	1.3257	-3.7603
2	-1.40	0.03	-2.1247	8.0490	0.0169	-0.0818	-0.0350	1.3046	0.0646	1.2400	-3.9902
3	-0.90	0.03	-1.9544	7.6979	-0.0067	-0.0821	-0.0295	1.2567	0.0646	1.1921	-4.1434
4	0.15	0.02	-1.7701	7.0782	0.0145	-0.0668	-0.0293	1.1912	0.0646	1.1266	-4.3377
5	1.16	0.03	-1.5702	7.2494	-0.0101	-0.0314	-0.0343	1.1327	0.0667	1.0660	-4.6166
6	2.19	0.02	-1.4013	6.0850	-0.0067	-0.0237	-0.0289	1.0771	0.0667	1.0104	-4.8888
7	4.27	0.02	-1.0276	6.0863	0.0008	-0.0438	-0.0283	0.9733	0.0667	0.9066	-5.9250
8	5.32	0.02	-0.8221	5.1941	-0.0213	-0.0159	-0.0224	0.9477	0.0689	0.8788	-8.5262
9	-.42	0.02	-0.2142	4.8322	-0.0291	-0.0128	-0.0217	0.8247	0.0710	0.7537	-21.1322
10	10.45	0.02	0.1730	4.2015	-0.0308	-0.0137	-0.0206	0.7876	0.0731	0.7145	24.2861
11	12.52	0.02	0.5537	3.8756	-0.0213	-0.0270	-0.0195	0.7638	0.0731	0.6907	6.9995
12	14.62	0.02	0.9274	3.8077	-0.0347	-0.0211	-0.0237	0.7510	0.0731	0.6779	3.8902
13	16.73	0.02	1.3059	3.6149	-0.0214	-0.0473	-0.0225	0.7552	0.0731	0.6821	2.6150
14	18.88	0.02	1.7308	3.2082	-0.0258	-0.0486	-0.0263	0.7653	0.0710	0.6943	1.8535
15	20.89	0.02	2.1088	2.9613	-0.0197	-0.0746	-0.0198	0.7650	0.0710	0.6940	1.3502
16	23.13	0.02	2.7327	2.6944	-0.0329	-0.0767	-0.0234	0.7499	0.0667	0.6832	0.9138
17	0.17	0.03	-1.7549	7.6590	-0.0001	-0.0484	-0.0293	1.1861	0.0667	1.1194	-4.3643

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)

PAGE 1 OF 1
SHEET 1 OF 1

MANTIS MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	WALU=B	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
3	3A	0.60	3.0	45.0	81+0F34	0.0	20	-20	20	-20	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-2.99	0.02	-2.1136	8.0059	0.0058	-0.0435	-0.0257	1.2452	0.0459	1.1993	-3.7870
2	-1.51	0.02	-1.4765	7.4575	-0.0049	-0.0453	-0.0254	1.1677	0.0459	1.1218	-3.9743
3	-0.08	0.02	-1.4703	7.0142	-0.0134	-0.0363	-0.0252	1.1084	0.0459	1.0625	-4.2024
4	0.57	0.02	-1.4417	6.8263	-0.0053	-0.0402	-0.0249	1.0947	0.0486	1.0061	-4.4721
5	1.59	0.02	-1.3132	6.2543	-0.0146	-0.0376	-0.0247	1.0019	0.0486	0.9533	-4.7664
6	2.59	0.02	-1.1270	5.4481	-0.0040	-0.0503	-0.0244	0.9546	0.0485	0.9061	-5.2334
7	4.60	0.02	-0.7408	3.2512	-0.0304	-0.0145	-0.0238	0.8655	0.0486	0.8169	-6.7254
8	6.69	0.02	-0.4149	4.5491	-0.0335	-0.0325	-0.0231	0.7947	0.0513	0.7434	-11.0316
9	8.78	0.02	-0.0375	4.0856	-0.0334	-0.0345	-0.0223	0.7445	0.0513	0.6972	-108.4008
10	10.80	0.02	0.3010	3.7574	-0.0564	-0.0175	-0.0288	0.7257	0.0513	0.6744	12.4831
11	12.84	0.02	0.6209	3.5085	-0.0496	-0.0145	-0.0204	0.7166	0.0513	0.6653	5.6507
12	14.91	0.02	0.9157	3.4007	-0.0559	-0.0145	-0.0194	0.7251	0.0513	0.6738	3.7138
13	16.97	0.02	1.2426	3.2102	-0.0342	-0.0550	-0.0183	0.7287	0.0513	0.6774	2.5834
14	19.07	0.02	1.6411	2.9478	-0.0324	-0.0692	-0.0171	0.7272	0.0513	0.6759	1.7444
15	21.16	0.02	2.0752	2.7506	-0.0363	-0.0702	-0.0159	0.7202	0.0486	0.6716	1.2290
16	23.25	0.02	2.5629	2.1149	-0.0429	-0.0636	-0.0212	0.7054	0.0486	0.6568	0.8252
17	0.50	0.02	-1.4802	6.6366	-0.0034	-0.0025	-0.0249	1.0570	0.0486	1.0084	-4.4837

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)
MARTIN MISSILE TAIL EFFECTS DATA

TEST 3 PART 39 MACH 2.36 MRI0=6 3.0 PHI 0.0 CONF 91=01 34 L 0.0 DEL1 0 DEL2 -20 DEL3 0 DEL4 -20 TRANSITION FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-3.47	0.01	-2.8081	10.5542	-0.0146	-0.0406	-0.0335	1.2844	0.1410	1.1434	-3.7585
2	-2.14	0.01	-2.5005	9.4574	-0.0173	-0.0473	-0.0333	1.2205	0.1438	1.0767	-3.9618
3	-1.07	0.01	-2.2416	9.1343	-0.0298	-0.0297	-0.0365	1.1741	0.1466	1.0275	-4.0908
4	-0.01	0.01	-2.0741	8.8404	-0.0192	-0.0513	-0.0363	1.1307	0.1509	0.9798	-4.2623
5	1.02	0.02	-1.8522	8.3660	-0.0352	-0.0206	-0.0397	1.0874	0.1537	0.9337	-4.4448
6	2.05	0.02	-1.6523	7.8266	-0.0376	-0.0077	-0.0325	1.0399	0.1564	0.8835	-4.7368
7	4.17	0.01	-1.2011	6.7324	-0.0409	0.0154	-0.0425	0.9416	0.1635	0.7781	-5.6052
8	6.26	0.02	-0.7345	5.6523	-0.0447	0.0217	-0.0420	0.8424	0.1663	0.6761	-7.6538
9	8.36	0.01	-0.2314	4.5674	-0.0371	0.0033	-0.0483	0.7463	0.1691	0.5772	-19.7466
10	10.51	0.01	0.1994	3.4287	-0.0377	0.0068	-0.0436	0.6562	0.1635	0.4907	8.5847
11	12.69	0.02	1.1294	2.1534	-0.0377	-0.0278	-0.0561	0.5561	0.1650	0.3911	1.9063
12	14.89	0.02	1.6243	1.0305	-0.0442	-0.0005	-0.0408	0.4713	0.1649	0.3064	0.5636
13	17.09	0.02	2.0956	0.1576	-0.0357	-0.0506	-0.0357	0.4197	0.1664	0.2533	0.0631
14	19.31	0.02	2.1121	-0.4683	-0.0347	-0.0859	-0.0272	0.3768	0.1649	0.2119	-0.1571
15	21.56	0.03	1.7550	-1.1949	-0.0334	-0.1231	-0.0291	0.3361	0.1607	0.1754	-0.3165
16	23.77	0.03	1.4327	-2.0005	-0.0457	-0.0744	-0.0275	0.2942	0.1593	0.1349	-0.4513
17	-0.01	0.02	-2.0632	8.8152	-0.0325	-0.0754	-0.0329	1.1306	0.1508	0.9798	-4.2726

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	REIU-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
3	AR	2.60	3.0	0.0	B1.0F34	0.0	0	-20	0	-20	FIXED

POINT	ALPHA	BETA	CN	CLP	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-3.79	0.01	-2.4414	9.0049	-0.0188	-0.0493	-0.0350	1.1393	0.1077	1.0316	-3.6584
2	-2.28	0.01	-2.1698	8.3600	-0.0233	-0.0624	-0.0346	1.0776	0.1077	0.9697	-3.8625
3	-1.21	0.01	-1.9884	7.9183	-0.0243	-0.0636	-0.0344	1.0312	0.1093	0.9219	-4.0268
4	-0.14	0.01	-1.7907	7.4467	-0.0195	-0.0547	-0.0381	0.9846	0.1125	0.8721	-4.2535
5	0.86	0.01	-1.5660	6.9725	-0.0096	-0.0442	-0.0339	0.9348	0.1141	0.8207	-4.5188
6	1.92	0.01	-1.3416	6.5059	-0.0161	-0.0573	-0.0336	0.8958	0.1173	0.7785	-4.8518
7	4.02	0.01	-0.9210	5.5716	-0.0127	-0.0546	-0.0370	0.8044	0.1205	0.6839	-6.0495
8	6.06	0.01	-0.4727	4.6216	-0.0264	-0.0745	-0.0364	0.7138	0.1237	0.5901	-9.7774
9	8.22	0.01	0.0571	3.5414	-0.0243	-0.0704	-0.0394	0.6190	0.1237	0.4953	62.0203
10	10.33	0.01	0.6562	2.4451	-0.0276	-0.0785	-0.0363	0.5392	0.1237	0.4155	3.7262
11	12.46	0.01	1.2351	1.3046	-0.0264	-0.0654	-0.0331	0.4843	0.1253	0.3590	1.2991
12	14.61	0.02	1.7654	1.0666	-0.0376	-0.0213	-0.0278	0.4541	0.1253	0.3288	0.6111
13	16.77	0.02	2.2571	0.8073	-0.0371	-0.0528	-0.0303	0.4307	0.1253	0.3054	0.2690
14	19.01	0.02	2.7472	0.1160	-0.0531	-0.0534	-0.0246	0.4074	0.1221	0.2853	0.0403
15	21.04	0.02	3.3256	-0.4011	-0.0352	-0.1051	-0.0235	0.3879	0.1205	0.2674	-0.1206
16	23.26	0.02	3.9226	-1.0736	-0.0447	-0.0753	-0.0299	0.3633	0.1173	0.2460	-0.2737
17	-0.14	0.01	-1.7485	7.4401	-0.0196	-0.0647	-0.0380	0.9850	0.1141	0.8709	-4.2551

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	REX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
3	41	3.95	3.0	0.0	B1=0F30	0.0	0	-20	0	-20	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-3.65	0.0	-1.4001	6.7849	0.0026	-0.0781	-0.0210	0.8857	0.0464	0.8193	-3.5708
2	-2.13	0.01	-1.4307	6.2213	-0.0108	-0.0309	-0.0206	0.8253	0.0464	0.7589	-3.8151
3	-1.11	0.0	-1.4401	5.9192	-0.0021	-0.0270	-0.0256	0.7835	0.0464	0.7171	-4.0409
4	-0.05	0.0	-1.2494	5.3995	0.0067	-0.0276	-0.0253	0.7425	0.0685	0.6740	-4.3217
5	0.97	0.0	-1.0546	4.9069	-0.0055	-0.0262	-0.0250	0.7034	0.0685	0.6349	-4.7270
6	1.98	0.0	-0.9033	4.6309	0.0008	-0.0249	-0.0248	0.6657	0.0685	0.5972	-5.1438
7	4.07	0.0	-0.6750	3.7734	-0.0054	-0.0399	-0.0240	0.5861	0.0706	0.5155	-7.0941
8	6.14	0.0	-0.0553	2.9169	-0.0117	-0.0308	-0.0233	0.5114	0.0706	0.4412	-51.8103
9	8.23	0.0	0.1352	2.3217	-0.0094	-0.0333	-0.0172	0.4686	0.0727	0.3959	6.9264
10	10.27	0.01	0.7203	1.9273	-0.0173	-0.0226	-0.0213	0.4479	0.0728	0.3751	2.6757
11	12.34	0.01	1.0647	1.7201	-0.0121	-0.0431	-0.0202	0.4411	0.0728	0.3683	1.6156
12	14.44	0.01	1.4542	1.4419	-0.0301	-0.0338	-0.0242	0.4362	0.0728	0.3634	1.0224
13	16.55	0.01	1.7534	1.2642	-0.0276	-0.0508	-0.0230	0.4375	0.0706	0.3669	0.6821
14	18.71	0.01	2.2859	1.0032	-0.0070	-0.0416	-0.0269	0.4380	0.0706	0.3674	0.4393
15	20.71	0.01	2.7395	0.8779	-0.0225	-0.0709	-0.0203	0.4394	0.0685	0.3714	0.2675
16	22.92	0.01	3.2866	0.2461	-0.0417	-0.0465	-0.0135	0.4385	0.0664	0.3721	0.0749
17	-0.04	0.01	-1.2469	5.3401	-0.0144	-0.0307	-0.0253	0.7395	0.0685	0.6710	-4.3228

LANGLEY RESEARCH CENTER (NASA) UNITARY PLAN WIND TUNNEL (UPWT)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	WALL-A	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
3	42	6.63	3.0	0.0	M140F34	0.0	0	-20	0	-20	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-3.27	0.0	-1.6836	5.9206	-0.0083	-0.0332	-0.0204	0.7954	0.0507	0.7447	-3.5593
2	-1.75	0.0	-1.3933	5.3715	0.0011	-0.0462	-0.0200	0.7364	0.0507	0.6857	-3.8555
3	-0.75	0.0	-1.2267	4.9955	0.0094	-0.0532	-0.0197	0.6975	0.0507	0.6468	-4.0923
4	0.31	0.0	-1.0234	4.6028	-0.0105	-0.0328	-0.0193	0.6592	0.0507	0.6085	-4.4953
5	1.30	0.0	-0.9521	4.2579	-0.0061	-0.0337	-0.0190	0.6200	0.0507	0.5693	-4.9978
6	2.34	0.0	-0.6563	3.8417	-0.0004	-0.0403	-0.0187	0.5843	0.0507	0.5336	-5.9145
7	4.41	0.0	-0.2490	3.1643	0.0114	-0.0580	-0.0180	0.5113	0.0534	0.4579	-10.9491
8	6.46	0.0	0.1060	2.5036	0.0177	-0.0665	-0.0239	0.4596	0.0534	0.4062	25.0360
9	8.51	0.0	0.4026	2.1912	0.0115	-0.0531	-0.0230	0.4359	0.0534	0.3825	5.4399
10	10.54	0.0	0.7287	1.9544	-0.0012	-0.0506	-0.0220	0.4283	0.0534	0.3749	2.6826
11	12.58	0.0	1.0272	1.8029	0.0111	-0.0702	-0.0210	0.4252	0.0534	0.3718	1.7552
12	14.60	0.0	1.3662	1.6014	-0.0067	-0.0696	-0.0199	0.4260	0.0534	0.3726	1.1722
13	16.78	0.0	1.7297	1.3763	0.0044	-0.0641	-0.0255	0.4324	0.0534	0.3790	0.7957
14	18.87	0.01	2.1175	1.0977	-0.0092	-0.0747	-0.0176	0.4349	0.0507	0.3842	0.5184
15	20.84	0.01	2.5321	0.7767	-0.0233	-0.0439	-0.0163	0.4408	0.0507	0.3901	0.3076
16	23.02	0.01	3.0231	0.3511	-0.0402	-0.0269	-0.0284	0.4488	0.0480	0.4008	0.1161
17	0.32	0.0	-1.0251	4.0082	-0.0106	-0.0327	-0.0194	0.6598	0.0480	0.6118	-4.4954

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RNI0-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
3	43	2.36	3.0	0.0	M1=0433	0.0	0	-20	0	-20	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-3.49	0.02	-2.6501	11.2407	-0.0570	0.0938	0.0084	1.3652	0.1355	1.2297	-3.8103
2	-2.12	0.02	-2.6154	10.4562	-0.0671	0.1104	0.0101	1.2882	0.1396	1.1486	-3.9926
3	-1.09	0.02	-2.3841	9.8586	-0.0829	0.1374	0.0008	1.2340	0.1437	1.0903	-4.1273
4	-0.01	0.01	-2.1483	9.2715	-0.0867	0.1752	0.0054	1.1797	0.1465	1.0332	-4.2759
5	0.93	0.01	-1.9350	8.8415	-0.0860	0.1356	0.0017	1.1279	0.1494	0.9785	-4.4893
6	2.04	0.01	-1.7064	8.2717	-0.0838	0.1352	0.0012	1.0705	0.1508	0.9197	-4.7413
7	4.07	0.01	-1.2526	6.9483	-0.0768	0.1485	0.0004	0.9707	0.1564	0.8143	-5.5430
8	6.24	0.01	-0.7517	5.7004	-0.0624	0.1602	-0.0003	0.8669	0.1607	0.7062	-7.6364
9	8.38	0.02	-0.2731	4.5777	-0.0460	0.2278	-0.0031	0.7661	0.1593	0.6098	-19.8946
10	10.51	0.02	0.2878	3.4087	-0.1044	0.2488	-0.0055	0.6767	0.1593	0.5174	8.7828
11	12.56	0.02	1.1186	2.1136	-0.1443	0.2293	-0.0041	0.5722	0.1594	0.4128	1.8893
12	14.67	0.02	1.9307	0.9785	-0.0975	0.2399	0.0113	0.4891	0.1594	0.3297	0.5345
13	17.07	0.02	2.4755	0.1466	-0.1033	0.2477	0.0198	0.4367	0.1608	0.2779	0.0673
14	19.33	0.02	3.1191	-0.9819	-0.1004	0.2817	0.0259	0.3972	0.1621	0.2351	-0.1800
15	21.45	0.03	3.7376	-1.7219	-0.1135	0.2225	0.0397	0.3593	0.1608	0.1985	-0.3269
16	23.72	0.03	4.4217	-2.5407	-0.1325	0.2623	0.0433	0.3168	0.1591	0.1577	-0.4706
17	-3.02	0.01	-2.1540	9.2467	-0.0528	0.1076	0.0054	1.1754	0.1466	1.0288	-4.2928

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RAIO-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
3	44	2.86	3.0	0.0	B1&UF33	0.0	0	-20	0	-20	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-3.77	0.01	-2.4426	9.5184	-0.0274	0.0307	-0.0034	1.1859	0.0981	1.0878	-3.7144
2	-2.75	0.01	-2.2247	8.7221	-0.0248	0.0306	-0.0014	1.1144	0.1013	1.0131	-3.9135
3	-1.21	0.01	-2.0045	8.1863	-0.0256	0.0260	-0.0031	1.0638	0.1045	0.9593	-4.0748
4	-0.16	0.01	-1.7905	7.6696	-0.0295	0.0336	-0.0026	1.0142	0.1061	0.9081	-4.2834
5	0.91	0.01	-1.5705	7.1411	-0.0354	0.0363	-0.0030	0.9658	0.1077	0.8581	-4.5458
6	1.92	0.01	-1.3670	6.6650	-0.0395	0.0764	-0.0036	0.9194	0.1109	0.8085	-4.8653
7	4.02	0.01	-0.9321	5.6584	-0.0334	0.0824	-0.0043	0.8264	0.1141	0.7123	-5.0706
8	6.09	0.01	-0.4824	4.6711	-0.0443	0.1010	-0.0128	0.7369	0.1173	0.6196	-9.6830
9	8.19	0.01	0.0332	3.5982	-0.0405	0.1045	-0.0120	0.6426	0.1173	0.5253	104.3801
10	10.31	0.01	0.4461	2.6427	-0.0560	0.1424	-0.0030	0.5647	0.1189	0.4458	3.7806
11	12.46	0.01	1.2602	1.5641	-0.0709	0.1594	0.0023	0.5062	0.1189	0.3873	1.2773
12	14.59	0.01	1.7414	1.0323	-0.0799	0.1816	0.0115	0.4767	0.1189	0.3578	0.5927
13	16.77	0.01	2.2566	0.5639	-0.0781	0.1794	0.0129	0.4509	0.1173	0.3336	0.2501
14	18.94	0.02	2.7956	0.0860	-0.0931	0.1906	0.0193	0.4319	0.1173	0.3146	0.0229
15	21.03	0.02	3.3151	-.4664	-0.0999	0.1711	0.0305	0.4118	0.1157	0.2961	-0.1407
16	23.26	0.02	3.9159	-1.1460	-0.1035	0.2106	0.0342	0.3874	0.1125	0.2749	-0.2926
17	-0.13	0.01	-1.7751	7.6485	-0.0322	0.0395	-0.0026	1.0124	0.1061	0.9063	-4.3088

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	PAIJ-B	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
3	45	3.45	3.0	0.0	A1.0F33	0.0	0	-20	0	-20	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-3.64	0.01	-1.9349	7.0077	-0.0293	0.0397	0.0053	0.9077	0.0598	0.8479	-3.6124
2	-2.11	0.01	-1.[illegible]	6.3779	-0.03[illegible]	0.0[illegible]3	0.0079	0.8472	0.0598	0.7874	-3.8691
3	-1.13	0.01	-1.4745	5.9831	-0.0300	0.0165	0.0043	0.8050	0.0620	0.7440	-4.0606
4	-0.05	0.01	-1.2749	5.5662	-0.0420	0.0579	0.0116	0.7648	0.0620	0.7028	-4.3297
5	0.98	0.01	-1.0[illegible]45	5.1133	-0.0331	0.0496	0.0056	0.7236	0.0642	0.6594	-4.7149
6	1.99	0.0	-0.9108	4.7201	-0.0246	0.0418	0.0049	0.6840	0.0663	0.6177	-5.1846
7	4.07	0.0	-0.5[illegible]39	3.8733	-0.0287	0.0329	0.0038	0.6055	0.0663	0.5392	-7.6458
8	6.12	0.0	-0.[illegible]2	3.0024	-0.0342	0.0497	0.0028	0.5340	0.0684	0.4656	-35.6577
9	[illegible].20	0.0	0.3[illegible]9	2.3711	-0.0301	0.0361	0.0037	0.4859	0.0684	0.4215	7.6585
10	10.26	0.01	0.6[illegible]0	1.9733	-0.0546	0.1170	0.0086	0.4708	0.0684	0.4024	2.8271
11	12.32	0.01	1.0[illegible]4	1.7175	-0.0525	0.1154	0.0111	0.4568	0.0705	0.3943	1.6136
12	14.42	0.01	1.4[illegible]3	1.4973	-0.0711	0.1413	0.0176	0.4608	0.0684	0.3924	1.0338
13	16.54	0.01	1.[illegible]56	1.2264	-0.0677	0.1371	0.0189	0.4588	0.0663	0.3925	0.6571
14	18.56	0.01	2.2[illegible]0	0.9771	-0.0642	0.1355	0.0135	0.4592	0.0642	0.3950	0.4282
15	20.71	0.01	2.7[illegible]6	0.6207	-0.0831	0.1517	0.0303	0.4601	0.0620	0.3981	0.2280
16	22.83	0.01	3.2[illegible]5	0.2210	-0.0834	0.1683	0.0345	0.4596	0.0599	0.3997	0.0676
17	-0.05	0.0	-1.2577	5.5056	-0.0204	0.0173	0.0061	0.7585	0.0620	0.6965	-4.3760

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	REYNO-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
3	46	4.63	3.0	0.0	B1+0F33	0.0	0	-20	0	-20	FIRED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-3.26	0.0	-1.6970	6.1050	-0.0161	0.0245	-0.0002	0.8157	0.0453	0.7704	-3.5975
2	-1.75	0.0	-1.4286	5.5256	-0.0055	0.0258	0.0097	0.7569	0.0453	0.7116	-3.8732
3	-0.76	0.0	-1.2249	5.1162	-0.0249	0.0464	0.0052	0.7162	0.0453	0.6709	-4.1632
4	0.30	0.0	-1.0500	4.7565	-0.0186	0.0336	0.0074	0.6779	0.0453	0.6326	-4.5024
5	1.34	0.0	-0.8595	4.3469	-0.0110	0.0275	0.0067	0.6408	0.0480	0.5928	-5.0575
6	2.33	0.0	-0.6873	4.0013	-0.0320	0.0575	0.0059	0.6046	0.0480	0.5566	-5.8218
7	4.41	0.0	-0.3212	3.2469	-0.0185	0.0459	0.0042	0.5323	0.0480	0.4843	-10.1709
8	6.44	0.0	0.0574	2.6096	-0.0115	0.0433	-0.0038	0.4832	0.0507	0.4325	38.7157
9	8.51	0.0	0.3959	2.2279	-0.0101	0.0433	-0.0029	0.4606	0.0507	0.4101	5.6275
10	10.53	0.0	0.7147	1.9895	-0.0284	0.0965	0.0048	0.4554	0.0507	0.4047	2.7644
11	12.60	0.0	1.0194	1.8284	-0.0431	0.1036	0.0058	0.4529	0.0507	0.4022	1.7948
12	14.67	0.0	1.3662	1.6113	-0.0311	0.0887	0.0069	0.4509	0.0507	0.4002	1.1794
13	16.73	0.0	1.7379	1.3813	-0.0462	0.1040	0.0080	0.4574	0.0480	0.4094	0.7833
14	18.84	0.01	2.1298	1.1370	-0.0634	0.1272	0.0100	0.4652	0.0453	0.4199	0.5028
15	20.95	0.01	2.5365	0.7347	-0.0744	0.1543	0.0212	0.4719	0.0453	0.4266	0.2899
16	23.00	0.01	3.0329	0.2926	-0.0873	0.1811	0.0126	0.4734	0.0426	0.4308	0.0965
17	0.32	0.0	-1.0546	4.7387	-0.0177	0.0324	0.0074	0.6794	0.0453	0.6341	-4.4891

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	PALO-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
3	47	2.36	2.5	45.0	B1=0F33	0.0	20	-20	20	-20	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-3.60	0.07	-4.0530	16.1274	-0.0019	-0.1230	-0.0211	2.2363	0.1505	2.0858	-3.0791
2	-2.07	0.07	-3.0351	14.4794	-0.0066	-0.0859	-0.0293	2.1098	0.1556	1.9542	-4.1209
3	-1.34	0.07	-2.6118	14.3213	-0.0057	-0.1165	-0.0292	2.0269	0.1573	1.8696	-4.2099
4	0.02	0.06	-3.1465	13.6374	-0.0066	-0.0929	-0.0291	1.9484	0.1607	1.7877	-4.3341
5	1.08	0.06	-2.9207	13.0218	-0.0196	-0.0823	-0.0290	1.8722	0.1641	1.7081	-4.4584
6	2.07	0.06	-2.6912	12.4405	-0.0280	-0.0533	-0.0413	1.8013	0.1658	1.6355	-4.6227
7	4.16	0.06	-2.1596	11.0969	-0.0104	-0.1094	-0.0369	1.6343	0.1657	1.4686	-5.0675
8	6.25	0.05	-1.6353	9.8211	-0.0141	-0.0766	-0.0408	1.4549	0.1692	1.2907	-5.8834
9	8.33	0.04	-1.1792	8.7969	-0.0156	-0.0576	-0.0496	1.3056	0.1754	1.1295	-7.6898
10	10.43	0.04	-0.8634	7.8373	-0.0205	-0.0546	-0.0394	1.1752	0.1810	0.9942	-15.1732
11	12.55	0.04	-0.5416	6.9458	-0.0384	-0.0342	-0.0257	1.0732	0.1844	0.8888	42.9785
12	14.72	0.04	-0.2826	6.2614	-0.0360	-0.0534	-0.0263	0.9911	0.1863	0.8068	6.7485
13	16.96	0.04	-0.1115	5.6776	-0.0434	-0.0422	-0.0270	0.9222	0.1844	0.7378	3.1722
14	19.10	0.04	0.0752	5.0615	-0.0450	-0.0419	-0.0213	0.8575	0.1844	0.6731	1.7644
15	21.17	0.03	0.2191	4.6263	-0.0759	-0.0362	-0.0450	0.7905	0.1827	0.6078	1.0396
16	23.40	0.03	0.3361	4.0084	-0.0754	-0.0281	-0.0393	0.7184	0.1810	0.5374	0.5260
17	0.02	0.06	-3.1546	13.6561	0.0022	-0.1059	-0.0333	1.9485	0.1624	1.7861	-4.3231

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST 3 PART 2.00 3.0 PHI 45.0 CONF 81=0F33 L 0.0 DEL1 20 DEL2 -20 DEL3 20 DEL4 -20 TRANSITION FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-3.40	0.05	-3.3208	12.9321	0.0064	-0.1428	-0.0366	1.8623	0.1000	1.7623	-3.8947
2	-2.06	0.05	-2.9062	12.0401	0.0083	-0.1240	-0.0365	1.7600	0.1032	1.6568	-4.0564
3	-1.03	0.05	-2.7606	11.5143	0.0107	-0.1319	-0.0403	1.6943	0.1049	1.5894	-4.1706
4	0.04	0.05	-2.5441	10.9764	0.0013	-0.1137	-0.0362	1.6267	0.1097	1.5170	-4.3139
5	1.04	0.05	-2.3378	10.4765	0.0063	-0.1276	-0.0399	1.5586	0.1097	1.4489	-4.4829
6	2.08	0.05	-2.1242	9.9937	0.0049	-0.1153	-0.0398	1.4934	0.1129	1.3805	-4.6936
7	4.18	0.05	-1.7113	9.0191	0.0062	-0.1179	-0.0356	1.3551	0.1145	1.2406	-5.2703
8	6.27	0.05	-1.1977	7.7411	0.0066	-0.0944	-0.0349	1.2117	0.1193	1.0924	-6.5050
9	8.36	0.04	-0.6971	6.7593	-0.0156	-0.0633	-0.0362	1.1036	0.1257	0.9779	-9.7107
10	10.46	0.03	-0.1533	5.8282	-0.0074	-0.0926	-0.0332	1.0162	0.1289	0.8873	-38.0053
11	12.58	0.03	0.3555	5.1981	-0.0104	-0.1006	-0.0281	0.9509	0.1289	0.8220	14.5529
12	14.74	0.03	0.8920	4.5771	-0.0151	-0.1031	-0.0268	0.9005	0.1289	0.7716	5.1313
13	14.89	0.03	1.4551	3.9769	-0.0337	-0.0844	-0.0295	0.8460	0.1289	0.7171	2.6643
14	19.10	0.03	2.0218	3.2551	-0.0307	-0.0859	-0.0303	0.8023	0.1289	0.6734	1.6100
15	21.15	0.03	2.5574	2.6725	-0.0354	-0.0974	-0.0348	0.7685	0.1273	0.6412	1.0450
16	23.40	0.03	3.1938	1.9024	-0.0449	-0.0999	-0.0411	0.7307	0.1257	0.6050	0.5957
17	0.03	0.05	-2.5346	10.9710	0.0143	-0.1339	-0.0362	1.6260	0.1097	1.5163	-4.3285

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	AXIS	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
3	49	3.95	3.0	45.0	W1WBF33	0.0	20	-20	20	-20	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-3.43	0.00	-2.4471	9.4804	0.0091	-0.1243	-0.0247	1.4342	0.0562	1.3780	-3.8120
2	-1.46	0.03	-2.1975	8.5037	0.0234	-0.1243	-0.0244	1.3449	0.0562	1.2887	-4.0062
3	-0.49	0.03	-2.0114	8.3716	0.0122	-0.1011	-0.0189	1.2878	0.0562	1.2316	-4.1620
4	0.16	0.03	-1.8275	7.9313	0.0036	-0.0736	-0.0240	1.2264	0.0583	1.1681	-4.3400
5	1.19	0.03	-1.5266	7.5001	0.0066	-0.0784	-0.0237	1.1706	0.0583	1.1121	-4.6109
6	2.18	0.03	-1.2527	7.1043	-0.0125	-0.0490	-0.0235	1.1152	0.0605	1.0547	-4.8904
7	4.30	0.02	-1.0633	6.2944	0.0124	-0.0603	-0.0230	1.0070	0.0626	0.9444	-5.9197
8	6.31	0.02	-0.4694	5.4982	-0.0186	-0.0417	-0.0224	0.9230	0.0647	0.8583	-8.2136
9	8.40	0.02	-0.2623	4.8239	-0.0089	-0.0409	-0.0216	0.8592	0.0669	0.7923	-10.3908
10	10.47	0.02	0.1060	4.4113	0.0021	-0.0641	-0.0207	0.8178	0.0669	0.7501	42.4163
11	12.53	0.02	0.5050	4.0171	-0.0149	-0.0768	-0.0249	0.7849	0.0669	0.7180	7.0547
12	14.60	0.02	0.5803	3.7162	-0.0080	-0.0893	-0.0238	0.7726	0.0669	0.7057	6.2215
13	16.76	0.02	1.2923	3.4774	-0.0023	-0.1158	-0.0277	0.7777	0.0669	0.7108	2.6908
14	18.85	0.02	1.7005	3.2691	-0.0204	-0.1085	-0.0317	0.7760	0.0647	0.7113	1.9060
15	20.90	0.02	2.1491	2.9450	-0.0172	-0.1267	-0.0250	0.7633	0.0626	0.7007	1.3096
16	23.04	0.02	2.7556	2.3466	-0.0347	-0.1048	-0.0288	0.7358	0.0605	0.6753	0.8518
17	0.16	0.03	-1.8143	7.9055	0.0199	-0.1105	-0.0240	1.2249	0.0605	1.1644	-4.3573

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	MRE/L*10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
3	50	4.63	3.0	45.0	B1-OF33	0.0	20	-20	20	-20	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-3.00	0.02	-2.2033	6.3702	0.0101	-0.1001	-0.0122	1.2974	0.0433	1.2541	-3.7989
2	-1.44	0.02	-1.4175	7.4962	0.0154	-0.1049	-0.0186	1.2066	0.0406	1.1660	-4.0137
3	-0.47	0.02	-1.7247	7.2469	-0.0099	-0.0816	-0.0117	1.1493	0.0406	1.1087	-4.2201
4	0.57	0.02	-1.5406	6.4506	-0.0010	-0.0768	-0.0181	1.0931	0.0433	1.0498	-4.4662
5	1.54	0.02	-1.3691	6.5097	-0.0064	-0.0711	-0.0179	1.0421	0.0433	0.9988	-4.7548
6	2.60	0.02	-1.1956	6.1597	-0.0174	-0.0575	-0.0176	0.9913	0.0433	0.9480	-5.1520
7	4.70	0.02	-0.8129	5.4479	0.0014	-0.0814	-0.0237	0.8999	0.0433	0.8566	-6.7087
8	6.69	0.01	-0.4471	4.7674	0.0020	-0.0714	-0.0230	0.8312	0.0460	0.7852	-10.6630
9	8.76	0.01	-0.1156	4.3107	0.0057	-0.0948	-0.0290	0.7819	0.0460	0.7359	-37.4208
10	10.79	0.01	0.2062	3.9826	0.0257	-0.1252	-0.0281	0.7534	0.0487	0.7047	19.3143
11	12.84	0.01	0.5369	3.7249	0.0104	-0.1254	-0.0271	0.7449	0.0487	0.6962	6.9379
12	14.88	0.01	0.8352	3.5733	-0.0052	-0.1092	-0.0261	0.7462	0.0487	0.6955	4.2784
13	16.98	0.01	1.2204	3.2647	-0.0052	-0.1308	-0.0317	0.7343	0.0460	0.6883	2.6751
14	19.12	0.01	1.6755	2.8446	-0.0104	-0.1219	-0.0236	0.7178	0.0460	0.6718	1.6978
15	21.09	0.01	2.1056	2.4407	0.0002	-0.1370	-0.0226	0.6998	0.0433	0.6565	1.1590
16	23.28	0.01	2.6404	1.8762	-0.0271	-0.1004	-0.0274	0.6758	0.0406	0.6352	0.7095
17	0.57	0.02	-1.5406	6.4506	-0.0010	-0.0768	-0.0181	1.0931	0.0406	1.0525	-4.4662

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
3	51	2.30	2.9	0.0	B1+0F33	0.0	0	0	0	0	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAH	CAF	XCP
1	-3.56	0.0	-0.7029	1.6784	-0.0357	0.1391	-0.0119	0.4478	0.1219	0.3259	-2.3878
2	-2.01	0.0	-0.3834	0.9278	-0.0533	0.1720	-0.0150	0.4441	0.1191	0.3250	-2.4193
3	-0.94	0.0	-0.1037	0.4556	-0.0466	0.1442	-0.0143	0.4419	0.1163	0.3256	-2.4800
4	0.09	0.0	0.0156	-0.0157	-0.0686	0.2024	-0.0179	0.4415	0.1163	0.3252	-1.0098
5	1.13	0.0	0.2165	-0.4692	-0.0567	0.1879	-0.0140	0.4434	0.1162	0.3272	-2.1844
6	2.15	0.01	0.4016	-0.9165	-0.0735	0.2103	-0.0137	0.4450	0.1192	0.3258	-2.2772
7	4.26	0.0	0.8119	-1.8451	-0.0811	0.2153	-0.0094	0.4551	0.1265	0.3286	-2.3218
8	6.33	0.0	1.2742	-2.9324	-0.0818	0.2267	-0.0194	0.4746	0.1382	0.3364	-2.3013
9	8.46	0.01	1.7939	-4.2242	-0.0754	0.2457	-0.0219	0.4886	0.1455	0.3431	-2.2434
10	10.59	0.01	2.4166	-5.7094	-0.0922	0.2686	-0.0205	0.4975	0.1484	0.3491	-2.1559
11	12.77	0.01	3.0942	-7.3347	-0.1040	0.2981	-0.0225	0.4995	0.1481	0.3514	-2.0489
12	14.94	0.01	3.7853	-9.0304	-0.0944	0.2950	-0.0135	0.4986	0.1451	0.3515	-1.9636
13	17.13	0.01	4.5248	-10.8357	-0.1140	0.3005	-0.0115	0.5020	0.1408	0.3612	-1.9085
14	19.36	0.02	5.2838	-12.6542	-0.1038	0.2999	0.0005	0.5104	0.1349	0.3757	-1.8661
15	21.54	0.01	6.0551	-14.5044	-0.1050	0.2940	0.0069	0.5197	0.1276	0.3921	-1.8422
16	23.79	0.02	6.8456	-16.4467	-0.1237	0.3222	0.0055	0.5347	0.1204	0.4143	-1.8337
17	0.09	0.01	0.0150	-0.0160	-0.0638	0.2215	-0.0144	0.4384	0.1159	0.3225	-1.0008

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)
MARTIN MISSILE TAIL EFFECTS DATA

PAGE 1 OF 1
SHEET 1 OF 1

TEST 3 MACH SP 2.36 RNL=6 2.9 PHI 45.0 CONF RL=0F33 L 0.0 DEL1 0 DEL2 0 DEL3 0 DEL4 0 TRANSITION FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-3.57	0.02	-0.6905	1.5709	-0.0264	0.0450	-0.0139	0.4440	0.1188	0.3252	-2.2757
2	-1.97	0.01	-0.3806	0.8566	-0.0225	0.0344	-0.0149	0.4434	0.1175	0.3259	-2.2443
3	-0.98	0.01	-0.1807	0.3970	-0.0317	0.0444	-0.0182	0.4419	0.1175	0.3244	-2.1969
4	0.10	0.01	0.0280	-0.0905	-0.0504	0.0947	-0.0216	0.4411	0.1160	0.3251	-3.1657
5	1.14	0.01	0.2080	-0.5274	-0.0385	0.0753	-0.0178	0.4432	0.1160	0.3272	-2.5260
6	2.14	0.0	0.3940	-0.9893	-0.0375	0.0835	-0.0140	0.4443	0.1174	0.3269	-2.4857
7	4.23	-0.01	0.7834	-1.9661	-0.0251	0.0470	-0.0207	0.4515	0.1218	0.3297	-2.4470
8	6.31	-0.01	1.2435	-3.1007	-0.0244	0.0471	-0.0236	0.4677	0.1335	0.3342	-2.3971
9	8.44	-0.01	1.6282	-4.2523	-0.0007	0.1020	-0.0228	0.4786	0.1409	0.3377	-2.3259
10	10.55	-0.01	2.0481	-5.4467	-0.0701	0.1559	-0.0181	0.4827	0.1379	0.3448	-2.2125
11	12.72	-0.02	3.1295	-8.4776	-0.0834	0.1767	-0.0166	0.4898	0.1409	0.3489	-2.0698
12	14.90	-0.02	3.8054	-7.5463	-0.0870	0.1530	-0.0223	0.5005	0.1424	0.3581	-1.9839
13	17.07	-0.02	4.5243	-8.6778	-0.1049	0.2081	-0.0171	0.5064	0.1440	0.3624	-1.9180
14	19.29	-0.03	5.2693	-9.9589	-0.1116	0.2072	-0.0192	0.5204	0.1468	0.3736	-1.8860
15	21.44	-0.04	6.1177	-11.4268	-0.1165	0.2407	-0.0284	0.5350	0.1438	0.3912	-1.8678
16	23.72	-0.04	7.0342	-13.2756	-0.1320	0.2531	-0.0231	0.5462	0.1351	0.4111	-1.8862
17	0.09	0.01	0.0292	-0.0838	-0.0300	0.0510	-0.0180	0.4432	0.1175	0.3257	-2.8492

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)
MARTIN MISSILE TAIL EFFECTS DATA

TEST PART 3 53 MACH 2.66 RATIO-6 3.2 PHI 45.0 BI=0F33 CONF 0.0 L 0 DEL1 0 DEL2 0 DEL3 0 DEL4 0 TRANSITION FIXED

POINT	ALPHA	BETA	CN	CLN	CY	CLN	CLL	CA	CAB	CBF	XCP
1	-3.56	0.01	-0.6735	1.1454	-0.0105	-0.0016	-0.0161	0.3907	0.0953	0.2954	-1.9172
2	-2.51	0.0	-0.3534	0.6471	-0.0031	-0.0040	-0.0082	0.3965	0.0951	0.2994	-1.8306
3	-1.00	0.01	-0.1749	0.3092	-0.0104	0.0037	-0.0116	0.3958	0.0969	0.2989	-1.7477
4	0.04	0.01	0.0040	-0.0488	-0.0292	0.0337	-0.0113	0.3943	0.0984	0.3009	-5.2088
5	1.11	0.0	0.1421	-0.3929	-0.0164	0.0146	-0.0147	0.4000	0.0969	0.3031	-2.1578
6	2.13	0.0	0.3465	-0.7214	-0.0142	0.0216	-0.0107	0.4001	0.0969	0.3032	-2.0820
7	4.23	0.0	0.7144	-1.4733	-0.0293	0.0376	-0.0139	0.4036	0.0984	0.3052	-2.0622
8	6.30	-0.01	1.1498	-2.3259	-0.0190	0.0345	-0.0094	0.4150	0.1045	0.3105	-2.0225
9	8.43	-0.01	1.6408	-3.2460	-0.0299	0.0465	-0.0160	0.4238	0.1076	0.3162	-1.9783
10	10.55	-0.01	2.2103	-4.1978	-0.0361	0.0648	-0.0111	0.4271	0.1075	0.3196	-1.8992
11	12.46	-0.01	2.7854	-5.0714	-0.0474	0.0900	-0.0136	0.4370	0.1075	0.3295	-1.8208
12	14.84	-0.01	3.3972	-5.9796	-0.0499	0.1226	-0.0122	0.4448	0.1060	0.3368	-1.7601
13	16.99	-0.02	4.0014	-7.0124	-0.0435	0.1565	-0.0109	0.5733	0.1060	0.4673	-1.7351
14	19.23	-0.02	4.7169	-8.1564	-0.0878	0.1515	-0.0132	0.4740	0.1045	0.3695	-1.7292
15	21.26	-0.03	5.4115	-9.4115	-0.0906	0.1662	-0.0119	0.4903	0.1015	0.3888	-1.7392
16	23.59	-0.04	6.2556	-11.0330	-0.0924	0.1694	-0.0141	0.5113	0.0953	0.4160	-1.7637
17	0.04	0.01	0.0194	-0.0533	-0.0193	0.0137	-0.0113	0.4009	0.0984	0.3025	-2.7454

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RALOW	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
3	54	2.60	3.2	0.0	#1=OF33	0.0	0	0	0	0	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-3.71	0.01	-0.6355	1.2704	-0.0476	0.0984	-0.0125	0.3946	0.0984	0.2982	-1.9991
2	-2.18	0.01	-0.3444	0.7161	-0.0615	0.1148	-0.0091	0.3946	0.0969	0.2997	-2.0649
3	-1.13	0.01	-0.1817	0.3823	-0.0503	0.1179	-0.0078	0.3976	0.0969	0.3007	-2.1039
4	-0.07	0.01	-0.0035	0.0230	-0.0737	0.1436	-0.0075	0.4006	0.0984	0.3022	-6.5714
5	0.96	0.01	0.1746	-0.3177	-0.0662	0.1346	-0.0071	0.4014	0.0984	0.3030	-1.8198
6	1.96	0.01	0.3258	-0.6235	-0.0587	0.1257	-0.0068	0.4019	0.0984	0.3035	-1.9138
7	4.09	0.01	0.7100	-1.3840	-0.0714	0.1532	-0.0061	0.4072	0.0999	0.3073	-1.9493
8	6.16	0.01	1.1201	-2.1785	-0.0706	0.1635	-0.0052	0.4188	0.1045	0.3143	-1.9450
9	8.30	0.01	1.6021	-3.0456	-0.0761	0.1847	-0.0074	0.4292	0.1106	0.3186	-1.9260
10	10.39	0.02	2.1795	-4.0034	-0.1036	0.2246	-0.0065	0.4336	0.1136	0.3200	-1.8735
11	12.53	0.02	2.7548	-4.9664	-0.1040	0.2304	-0.0051	0.4368	0.1106	0.3262	-1.8028
12	14.70	0.02	3.3604	-5.9355	-0.1151	0.2557	-0.0035	0.4434	0.1091	0.3347	-1.7544
13	16.87	0.02	4.0061	-6.9129	-0.1306	0.2790	0.0019	0.4529	0.1060	0.3469	-1.7247
14	19.08	0.02	4.6836	-7.9193	-0.1205	0.2579	0.0111	0.4655	0.1030	0.3625	-1.7122
15	21.18	0.03	5.3714	-8.9116	-0.1317	0.2844	0.0126	0.4798	0.0999	0.3799	-1.7148
16	23.44	0.03	6.1732	-10.7552	-0.1323	0.2885	0.0147	0.4965	0.0923	0.4062	-1.7622
17	-0.08	0.01	-0.0035	0.0230	-0.0740	0.1437	-0.0037	0.3994	0.0984	0.3010	-6.5714

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RN/FT=6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
3	55	3.95	3.0	+5.0	W1+0F33	0.0	0	0	0	0	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-3.42	0.01	-0.4818	0.6250	-0.0191	0.0106	0.0042	0.3115	0.0637	0.2478	-1.3534
2	-1.49	0.01	-0.2307	0.2967	-0.0307	0.0252	0.0047	0.3113	0.0616	0.2497	-1.2641
3	-0.46	0.0	-0.1049	0.1080	-0.0225	0.0276	-0.0003	0.3125	0.0616	0.2509	-0.9823
4	0.19	0.0	0.0453	-0.1094	-0.0161	0.0182	0.0001	0.3129	0.0616	0.2513	-2.4243
5	1.21	0.0	0.1866	-0.3184	-0.0235	0.0366	0.0057	0.3141	0.0616	0.2525	-1.7101
6	2.22	0.0	0.3275	-0.5264	-0.0292	0.0347	0.0007	0.3170	0.0616	0.2554	-1.6089
7	4.29	0.0	0.6215	-0.9770	-0.0290	0.0354	0.0014	0.3234	0.0638	0.2596	-1.5730
8	6.34	0.0	0.9093	-1.5251	-0.0333	0.0528	0.0021	0.3306	0.0638	0.2668	-1.5734
9	8.43	0.0	1.3691	-2.1233	-0.0385	0.0835	-0.0023	0.3389	0.0659	0.2730	-1.5543
10	10.46	0.0	1.7952	-2.7264	-0.0455	0.0725	-0.0013	0.3514	0.0659	0.2855	-1.5107
11	12.56	0.0	2.2535	-3.3584	-0.0552	0.0919	-0.0054	0.3631	0.0638	0.2993	-1.4903
12	14.65	0.0	2.7496	-4.1273	-0.0706	0.1085	-0.0043	0.3812	0.0616	0.3196	-1.4902
13	16.76	0.0	3.3371	-5.0350	-0.0866	0.1336	-0.0031	0.4041	0.0595	0.3446	-1.5088
14	18.39	-0.01	3.9416	-6.0434	-0.0891	0.1247	-0.0072	0.4254	0.0574	0.3680	-1.5334
15	20.93	-0.01	4.5416	-7.1716	-0.0995	0.1572	-0.0059	0.4467	0.0531	0.3936	-1.5654
16	23.10	-0.01	5.3064	-8.4334	-0.1124	0.1650	-0.0098	0.4731	0.0489	0.4242	-1.5897
17	0.19	0.01	0.0603	-0.1372	-0.0300	0.0274	0.0001	0.3114	0.0595	0.2519	-2.2756

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RNIO-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
3	56	3.95	3.0	0.0	B1+0F33	0.0	0	0	0	0	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-3.61	0.0	-0.4784	0.0066	-0.0231	0.0560	-0.0012	0.3080	0.0616	0.2464	-1.4411
2	-2.58	0.0	-0.2892	0.3815	-0.0312	0.0807	-0.0006	0.3087	0.0616	0.2471	-1.4171
3	-1.06	0.0	-0.1359	0.1962	-0.0164	0.04-3	-0.0003	0.3084	0.0616	0.2468	-1.4434
4	0.01	0.0	0.0149	-0.0235	-0.0431	0.0966	0.0001	0.3089	0.0615	0.2474	-1.5745
5	1.00	0.0	0.1477	-0.2181	-0.0392	0.0917	0.0004	0.3102	0.0616	0.2486	-1.4765
6	2.01	0.0	0.2807	-0.4248	-0.0347	0.0863	0.0007	0.3133	0.0616	0.2517	-1.5133
7	4.09	0.0	0.5406	-0.8982	-0.0260	0.0898	0.0015	0.3143	0.0638	0.2555	-1.4917
8	6.16	0.0	0.9814	-1.4187	-0.0367	0.1069	-0.0029	0.3282	0.0638	0.2624	-1.5078
9	8.24	0.0	1.3458	-2.0397	-0.0436	0.1139	-0.0019	0.3377	0.0659	0.2718	-1.5156
10	10.29	0.01	1.7471	-2.6350	-0.0715	0.1044	-0.0008	0.3510	0.0659	0.2851	-1.4912
11	12.36	0.01	2.2295	-3.2831	-0.0787	0.1060	0.0004	0.3655	0.0659	0.2999	-1.4726
12	14.47	0.01	2.7142	-3.9923	-0.0776	0.1735	0.0058	0.3825	0.0638	0.3187	-1.4789
13	16.57	0.01	3.2747	-4.8880	-0.0939	0.1951	0.0052	0.4012	0.0616	0.3396	-1.4911
14	19.74	0.01	3.9494	-5.9820	-0.0802	0.1748	0.0046	0.4226	0.0595	0.3631	-1.5240
15	20.75	0.01	4.5206	-7.0592	-0.0754	0.1796	0.0111	0.4444	0.0552	0.3892	-1.5616
16	22.93	0.01	5.2756	-8.0453	-0.0723	0.1732	0.0233	0.4700	0.0510	0.4190	-1.6008
17	-0.02	0.0	0.0162	-0.0255	-0.0434	0.0826	0.0001	0.3100	0.0595	0.2505	-1.5720

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RN/D-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
3	57	4.63	3.0	0.0	WING	0.0	0	0	0	0	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	ACP
1	-3.25	0.0	-0.4107	0.4774	0.0087	0.0243	-0.0012	0.2887	0.0447	0.2440	-1.1636
2	-1.49	0.0	-0.1948	0.2262	-0.0328	0.0771	-0.0006	0.2464	0.0447	0.2421	-1.1673
3	-0.72	0.0	-0.0735	0.0849	-0.0420	0.0448	-0.0002	0.2886	0.0447	0.2439	-1.1551
4	0.34	0.0	0.0408	-0.0383	-0.0515	0.1010	0.0001	0.2862	0.0447	0.2415	-1.2034
5	1.38	0.0	0.1909	-0.2259	-0.0487	0.0976	0.0005	0.2890	0.0447	0.2443	-1.1831
6	2.35	0.0	0.3108	-0.3640	-0.0462	0.0946	0.0008	0.2893	0.0447	0.2446	-1.1712
7	4.42	0.0	0.5946	-0.7190	-0.0131	0.0530	0.0016	0.2937	0.0447	0.2490	-1.1992
8	6.44	0.0	0.9541	-1.2259	-0.0044	0.0609	-0.0042	0.3018	0.0447	0.2571	-1.2796
9	8.55	0.0	1.3038	-1.6906	-0.0153	0.0752	-0.0033	0.3142	0.0447	0.2695	-1.2967
10	10.57	0.0	1.6745	-2.2031	-0.0523	0.1226	-0.0023	0.3277	0.0474	0.2803	-1.3157
11	12.61	0.0	2.0940	-2.8242	-0.0589	0.1320	-0.0013	0.3416	0.0474	0.2942	-1.3485
12	14.69	0.0	2.5766	-3.6136	-0.0532	0.1250	-0.0001	0.3578	0.0474	0.3104	-1.4025
13	16.78	0.0	3.1034	-4.5922	-0.0681	0.1464	0.0010	0.3764	0.0447	0.3317	-1.4764
14	18.92	0.01	3.7116	-5.7503	-0.1014	0.1912	0.0023	0.3990	0.0420	0.3570	-1.5492
15	20.98	0.01	4.3391	-7.0073	-0.0693	0.1520	0.0103	0.4240	0.0392	0.3868	-1.6149
16	23.06	0.01	5.0628	-8.4810	-0.0824	0.1499	-0.0016	0.4509	0.0365	0.4144	-1.6752
17	0.32	0.0	0.0493	-0.0556	-0.0245	0.0669	0.0001	0.2869	0.0420	0.2469	-1.2013

LANGLEY RESEARCH CENTER(LASA) UNITARY PLAN WIND TUNNEL(UPWT)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PERT	MACH	RNI0-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
3	58	4.63	3.0	45.0	B1-0F33	0.0	0	0	0	0	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-2.99	0.0	-0.3495	0.4018	-0.0157	-0.0026	-0.0010	0.2908	0.0447	0.2461	-1.0874
2	-1.44	0.0	-0.1671	0.1845	-0.0072	-0.0143	-0.0005	0.2903	0.0446	0.2457	-0.9865
3	-0.47	0.0	-0.0596	0.0334	-0.0135	-0.0014	-0.0002	0.2910	0.0446	0.2464	-0.5579
4	0.54	0.0	0.0724	-0.1090	-0.0013	-0.0210	-0.0006	0.2914	0.0446	0.2468	-1.5050
5	1.42	0.0	0.2037	-0.2656	-0.0265	0.0196	0.0005	0.2922	0.0446	0.2476	-1.3070
6	2.60	0.0	0.3336	-0.4149	-0.0151	0.0138	-0.0059	0.2942	0.0446	0.2496	-1.2669
7	4.68	0.0	0.6259	-0.7469	-0.0289	0.0295	-0.0052	0.2998	0.0446	0.2552	-1.2750
8	6.71	0.0	0.9483	-1.2472	-0.0280	0.0382	-0.0044	0.3053	0.0473	0.2580	-1.3397
9	8.78	0.0	1.3201	-1.7670	-0.0256	0.0353	-0.0104	0.3158	0.0473	0.2685	-1.3592
10	10.92	0.0	1.7062	-2.3084	-0.0271	0.0358	-0.0094	0.3270	0.0473	0.2797	-1.3529
11	12.86	0.0	2.1292	-2.9306	-0.0489	0.0775	-0.0085	0.3408	0.0473	0.2935	-1.3764
12	14.94	0.0	2.6011	-3.7192	-0.0624	0.0942	-0.0075	0.3598	0.0474	0.3124	-1.4299
13	17.01	-0.01	3.1275	-4.6127	-0.0529	0.0787	-0.0065	0.3794	0.0446	0.3348	-1.4749
14	19.11	-0.01	3.6938	-5.5786	-0.0813	0.1246	-0.0054	0.3982	0.0419	0.3563	-1.5144
15	21.12	-0.01	4.2615	-6.5974	-0.0821	0.1442	-0.0043	0.4225	0.0392	0.3833	-1.5481
16	23.27	-0.01	4.9143	-7.7675	-0.0672	0.1358	-0.0097	0.4450	0.0337	0.4113	-1.5806
17	0.58	0.0	0.0726	-0.1092	-0.0017	-0.0206	0.0001	0.2930	0.0392	0.2538	-1.5003

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	MXIU=0	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
3	59	2.30	3.0	0.0	b1.0F36	0.0	0	0	0	0	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-3.57	0.01	-0.7292	1.7546	-0.0139	-0.0400	-0.0248	0.4226	0.1241	0.2985	-2.4062
2	-1.64	0.01	-0.4215	1.0240	-0.0241	-0.0154	-0.0268	0.4178	0.1226	0.2952	-2.4294
3	-0.49	0.01	-0.2184	0.5366	-0.0271	-0.0023	-0.0221	0.4174	0.1212	0.2957	-2.4804
4	0.10	0.01	0.0010	0.0412	-0.0303	0.0116	-0.0207	0.4156	0.1212	0.2944	41.2008
5	1.13	0.01	0.1933	-0.4279	-0.0329	0.0246	-0.0210	0.4161	0.1213	0.2948	-2.2138
6	2.15	0.01	0.3856	-0.8734	-0.0230	0.0130	-0.0213	0.4180	0.1227	0.2953	-2.2051
7	4.27	0.01	0.8212	-1.9019	-0.0403	0.0552	-0.0288	0.4277	0.1283	0.2994	-2.3168
8	6.36	0.01	1.2524	-2.9292	-0.0355	0.0813	-0.0254	0.4455	0.1396	0.3059	-2.2864
9	8.50	0.01	1.7431	-3.9334	-0.0336	0.0520	-0.0280	0.4593	0.1490	0.3103	-2.1939
10	10.61	0.01	2.2598	-5.0044	-0.0483	0.0904	-0.0300	0.4705	0.1521	0.3184	-2.0941
11	12.77	0.01	3.0171	-5.9629	-0.0448	0.0596	-0.0353	0.4706	0.1478	0.3228	-1.9764
12	14.98	0.02	3.7077	-6.9418	-0.0691	0.0893	-0.0300	0.4663	0.1449	0.3214	-1.8723
13	17.16	0.02	4.4064	-7.9822	-0.0528	0.0329	-0.0281	0.4687	0.1408	0.3279	-1.8115
14	19.45	0.02	5.1307	-9.0164	-0.0526	0.0285	-0.0197	0.4698	0.1351	0.3347	-1.7573
15	21.59	0.03	5.8401	-10.0082	-0.0713	0.0526	-0.0173	0.4756	0.1295	0.3461	-1.7240
16	23.85	0.03	6.6556	-11.1264	-0.0734	0.0673	-0.0221	0.4824	0.1256	0.3570	-1.7158
17	0.09	0.01	0.0020	0.0321	-0.0302	0.0022	-0.0206	0.4155	0.1210	0.2945	16.0508

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)
MARTIN MISSILE TAIL EFFECTS DATA

PAGE 1 OF 1
SHEET 1 OF 1

TEST	PART	MACH	REIN-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
3	60	2.36	3.0	45.0	81.0F34	0.0	0	0	0	0	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-3.56	0.02	-0.7388	1.7705	-0.0097	-0.0472	-0.0356	0.4249	0.1239	0.3010	-2.4838
2	-2.01	0.01	-0.4260	1.0475	-0.0172	-0.0344	-0.0318	0.4212	0.1224	0.2988	-2.4589
3	-0.98	0.01	-0.2224	0.5684	-0.0191	-0.0342	-0.0384	0.4190	0.1225	0.2965	-2.5556
4	0.10	0.01	0.0003	0.0655	-0.0224	-0.0277	-0.0382	0.4170	0.1210	0.2960	219.2664
5	1.15	0.01	0.1913	-0.3645	-0.0314	0.0105	-0.0269	0.4165	0.1210	0.2955	-2.0100
6	2.15	0.0	0.3720	-0.8149	-0.0281	0.0144	-0.0330	0.4150	0.1197	0.2953	-2.1906
7	4.25	0.0	0.7956	-1.8211	-0.0152	-0.0136	-0.0312	0.4228	0.1268	0.2960	-2.2855
8	6.33	-0.01	1.2752	-2.9016	-0.0237	0.0124	-0.0331	0.4349	0.1352	0.2997	-2.2702
9	8.46	-0.01	1.7925	-3.9667	-0.0309	0.0268	-0.0405	0.4427	0.1423	0.3004	-2.2129
10	10.59	-0.02	2.3414	-5.0144	-0.0437	0.0578	-0.0405	0.4446	0.1423	0.3023	-2.0964
11	12.75	-0.01	3.0150	-6.4936	-0.0701	0.0962	-0.0434	0.4501	0.1451	0.3050	-1.9546
12	14.94	-0.02	3.6713	-8.0817	-0.0734	0.0957	-0.0456	0.4605	0.1489	0.3116	-1.8571
13	17.13	-0.02	4.3517	-9.7465	-0.0978	0.1266	-0.0438	0.4603	0.1452	0.3151	-1.7806
14	19.39	-0.03	5.0429	-11.4594	-0.0783	0.0818	-0.0526	0.4678	0.1479	0.3199	-1.7418
15	21.65	-0.03	5.7669	-13.1270	-0.0956	0.1007	-0.0510	0.4742	0.1465	0.3277	-1.7261
16	23.78	-0.03	6.7194	-11.6509	-0.1160	0.1460	-0.0527	0.4884	0.1440	0.3404	-1.7346
17	0.06	0.01	-0.0086	0.0827	-0.0316	-0.0102	-0.0382	0.4169	0.1211	0.2958	-9.8405

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	REID-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
3	61	2.00	3.0	45.0	B1#0F34	0.0	0	0	0	0	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-1.55	0.01	-0.0544	1.3385	0.0038	-0.0743	-0.0287	0.3784	0.1011	0.2773	-2.0329
2	-2.00	0.01	-0.3472	0.7534	-0.0041	-0.0403	-0.0242	0.3764	0.0979	0.2787	-2.1091
3	-0.46	0.01	-0.1703	1.3464	-0.0155	-0.0358	-0.0278	0.3764	0.0979	0.2785	-2.2890
4	0.98	0.01	-0.3147	0.8804	-0.0155	-0.0324	-0.0236	0.3756	0.0995	0.2761	-5.4612
5	1.13	0.01	0.1443	-0.7695	-0.0222	-0.0231	-0.0226	0.3761	0.0995	0.2766	-1.6014
6	2.13	0.0	0.3345	-0.6107	-0.0176	-0.0207	-0.0256	0.3768	0.0979	0.2789	-1.8041
7	4.25	0.0	0.7001	-1.3454	-0.0089	-0.0400	-0.0278	0.3818	0.1011	0.2807	-1.9219
8	6.31	0.0	1.1158	-2.1393	-0.0158	-0.0146	-0.0258	0.3900	0.1075	0.2825	-1.9159
9	8.42	-0.01	1.5991	-2.9710	-0.0195	-0.0145	-0.0302	0.3968	0.1107	0.2861	-1.8696
10	10.53	-0.01	2.1424	-3.8382	-0.0375	0.0141	-0.0304	0.4000	0.1123	0.2877	-1.7892
11	12.66	-0.01	2.7126	-4.6207	-0.0493	0.0335	-0.0340	0.4064	0.1123	0.2941	-1.7034
12	14.80	-0.01	3.2907	-5.3256	-0.0627	0.0484	-0.0366	0.4139	0.1091	0.3048	-1.6487
13	16.95	-0.01	3.9060	-6.3279	-0.0860	0.0746	-0.0392	0.4226	0.1091	0.3135	-1.6192
14	19.17	-0.01	4.5563	-7.3627	-0.0855	0.0840	-0.0457	0.4332	0.1091	0.3241	-1.6159
15	21.29	-0.02	5.2005	-8.3251	-0.0948	0.0596	-0.0483	0.4472	0.1075	0.3397	-1.6243
16	23.46	-0.03	6.0311	-9.5678	-0.0900	0.0831	-0.0506	0.4655	0.1059	0.3596	-1.6530
17	0.08	0.01	-0.0027	0.0726	-0.0259	-0.0265	-0.0276	0.3770	0.0995	0.2775	-26.8074

PAGE 1 OF 1
SHEET 1 OF 1

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	REIG=6	PHI	CONF	L	LFL1	DEL2	DEL3	DEL4	TRANSITION
3	62	2.60	3.0	0.0	BLADE3	0.0	0	0	0	0	FIXED

POINT	ALPHA	BETA	CN	CLN	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-3.71	0.01	-0.0542	1.1302	-0.0057	-0.0075	-0.0209	0.3776	0.1011	0.2765	-2.0209
2	-2.14	0.01	-0.0347	0.7869	-0.0124	-0.0070	-0.0187	0.3766	0.0995	0.2771	-2.0454
3	-1.14	0.01	-0.0211	0.4454	-0.0064	-0.0021	-0.0133	0.3765	0.0995	0.2770	-2.1067
4	-0.06	0.01	-0.0044	0.0774	-0.0187	-0.0028	-0.0118	0.3772	0.0995	0.2777	-3.1541
5	0.96	0.01	0.1490	-0.2633	-0.0288	-0.0148	-0.0121	0.3776	0.0995	0.2781	-1.7671
6	1.99	0.0	0.3209	-0.5016	-0.0073	-0.0309	-0.0125	0.3780	0.0995	0.2785	-1.8746
7	4.09	0.01	0.6988	-1.3461	-0.0115	-0.0242	-0.0131	0.3843	0.1027	0.2816	-1.9329
8	6.15	0.01	1.1128	-2.1173	-0.0311	0.0118	-0.0174	0.3967	0.1091	0.2876	-1.9027
9	8.26	0.01	1.5514	-2.9502	-0.0209	0.0002	-0.0202	0.4041	0.1139	0.2902	-1.8655
10	10.38	0.01	2.1492	-3.8942	-0.0283	0.0109	-0.0228	0.4115	0.1155	0.2960	-1.8119
11	12.55	0.01	2.7274	-4.7263	-0.0461	0.0363	-0.0252	0.4146	0.1139	0.3007	-1.7329
12	14.69	0.02	3.3044	-5.5596	-0.0573	0.0498	-0.0237	0.4200	0.1107	0.3093	-1.6815
13	16.82	0.02	3.9110	-6.4131	-0.0569	0.0294	-0.0222	0.4274	0.1075	0.3199	-1.6440
14	19.02	0.02	4.5222	-7.4447	-0.0511	0.0234	-0.0244	0.4371	0.1027	0.3344	-1.6306
15	21.16	0.02	5.2314	-8.4858	-0.0526	0.0060	-0.0228	0.4502	0.0979	0.3523	-1.6219
16	23.37	0.02	5.9715	-9.7642	-0.0572	0.0051	-0.0130	0.4628	0.0915	0.3713	-1.6351
17	-0.07	0.01	-0.0102	0.0585	-0.0182	-0.0258	-0.0118	0.3760	0.0995	0.2765	-5.7333

LANGLEY RESEARCH CENTER (NASA) UNITARY PLAN WIND TUNNEL (UPWT)
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RNX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
3	63	3.95	3.0	45.0	B1-0F34	0.0	0	0	0	0	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-3.42	0.01	-0.4953	0.7735	-0.0014	-0.0424	-0.0168	0.2987	0.0642	0.2375	-1.5523
2	-1.45	0.01	-0.2459	0.4201	-0.0161	-0.0205	-0.0163	0.2955	0.0643	0.2312	-1.5798
3	-0.44	0.01	-0.1219	0.2059	-0.0291	0.0022	-0.0160	0.2949	0.0643	0.2306	-1.7017
4	0.18	0.0	0.0067	0.0044	0.0024	-0.0170	-0.0156	0.2947	0.0643	0.2299	0.7343
5	1.22	0.0	0.1480	-0.1929	-0.0298	0.0048	-0.0144	0.2955	0.0643	0.2312	-1.3034
6	2.21	0.0	0.2995	-0.4224	-0.0208	-0.0050	-0.0132	0.2977	0.0643	0.2334	-1.4117
7	4.30	0.0	0.5896	-0.8560	-0.0150	-0.0103	-0.0160	0.3050	0.0664	0.2386	-1.4519
8	6.37	0.0	0.9361	-1.3633	-0.0153	-0.0085	-0.0190	0.3110	0.0664	0.2446	-1.4564
9	8.44	0.0	1.2945	-1.9220	-0.0371	0.0191	-0.0199	0.3182	0.0685	0.2497	-1.4467
10	10.48	0.0	1.7506	-2.4764	-0.0342	0.0164	-0.0259	0.3282	0.0685	0.2603	-1.4135
11	12.55	0.0	2.2155	-3.0815	-0.0463	0.0340	-0.0315	0.3394	0.0685	0.2709	-1.3909
12	14.66	0.0	2.7060	-3.7857	-0.0541	0.0355	-0.0357	0.3577	0.0664	0.2913	-1.4021
13	16.76	-0.01	3.2567	-4.5715	-0.0515	0.0336	-0.0450	0.3779	0.0643	0.3136	-1.4217
14	18.98	-0.01	3.8678	-5.4102	-0.0699	0.0456	-0.0490	0.3984	0.0621	0.3363	-1.4506
15	20.99	-0.01	4.4734	-6.2640	-0.0653	0.0754	-0.0478	0.4190	0.0579	0.3611	-1.4830
16	23.15	-0.01	5.2001	-7.2411	-0.1051	0.1023	-0.0516	0.4407	0.0558	0.3849	-1.5079
17	0.19	0.01	0.0250	-0.0082	-0.0395	0.0064	-0.0156	0.2941	0.0621	0.2320	-0.3280

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	MAX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
3	64	3.95	3.0	0.0	B1+0F34	0.0	0	0	0	0	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-3.02	0.0	-0.4918	0.7540	0.0157	-0.0624	-0.0116	0.2921	0.0643	0.2278	-1.5332
2	-2.04	0.0	-0.2639	0.4106	0.0105	-0.0630	-0.0098	0.2925	0.0643	0.2282	-1.5535
3	-1.00	0.0	-0.1306	0.2127	-0.0043	-0.0385	-0.0070	0.2938	0.0643	0.2295	-1.6289
4	0.0	0.0	0.0022	0.0103	-0.0041	-0.0386	-0.0052	0.2941	0.0643	0.2298	7.4182
5	1.02	0.0	0.1541	-0.2104	-0.0032	-0.0373	-0.0057	0.2955	0.0643	0.2312	-1.3948
6	2.03	0.0	0.2869	-0.4095	-0.0028	-0.0376	-0.0062	0.2972	0.0643	0.2329	-1.4272
7	4.09	0.0	0.5846	-0.8652	-0.0015	-0.0743	-0.0125	0.3031	0.0643	0.2388	-1.4368
8	6.15	0.0	0.9486	-1.3819	-0.0001	-0.0753	-0.0133	0.3123	0.0664	0.2459	-1.4559
9	8.25	0.01	1.3403	-1.9560	-0.0201	0.0011	-0.0176	0.3190	0.0664	0.2526	-1.4549
10	10.26	0.01	1.7488	-2.5304	-0.0218	0.0040	-0.0164	0.3316	0.0685	0.2631	-1.4309
11	12.36	0.01	2.2169	-3.1256	-0.0243	-0.0058	-0.0205	0.3451	0.0664	0.2787	-1.4099
12	14.47	0.01	2.7028	-3.8044	-0.0210	-0.0093	-0.0245	0.3603	0.0664	0.2939	-1.4078
13	16.61	0.01	3.2462	-4.6067	-0.0442	0.0216	-0.0231	0.3785	0.0643	0.3142	-1.4191
14	18.70	0.01	3.8230	-5.5278	-0.0367	0.0183	-0.0270	0.3962	0.0600	0.3362	-1.4440
15	20.75	0.01	4.4516	-6.5701	-0.0531	0.0077	-0.0150	0.4171	0.0579	0.3592	-1.4761
16	22.95	0.01	5.1826	-7.7485	-0.0612	0.0482	-0.0185	0.4406	0.0536	0.3868	-1.5097
17	-0.02	0.0	0.0022	0.0102	-0.0041	-0.0387	-0.0052	0.2942	0.0621	0.2321	7.3727

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)
MARTIN MISSILE TAIL EFFECTS DATA

TEST 3 PART 65 ALN 4.63 RATIO=5 3.0 PHI 0.0 CONF. 81.0F34 L 0.0 DEL1 0 DEL2 0 DEL3 0 DEL4 0 TRANSITION FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-3.22	0.0	-0.0044	0.0000	0.0004	-0.0434	-0.0143	0.2727	0.0482	0.2245	-1.2359
2	-1.75	0.0	-0.2124	0.2053	0.0004	-0.0403	-0.0111	0.2649	0.0482	0.2217	-1.2489
3	-1.74	0.0	-0.2043	0.1973	0.0019	-0.0376	-0.0089	0.2717	0.0482	0.2235	-1.3619
4	0.34	0.0	0.0513	-0.0321	-0.0004	-0.0341	-0.0065	0.2715	0.0482	0.2233	-0.6261
5	1.34	0.0	0.1935	-0.1991	-0.0021	-0.0145	-0.0073	0.2726	0.0482	0.2244	-1.0289
6	2.35	0.0	0.3134	-0.3374	-0.0039	-0.0120	-0.0081	0.2736	0.0481	0.2255	-1.0765
7	4.43	0.0	0.6257	-0.7230	-0.0079	-0.0078	-0.0095	0.2780	0.0482	0.2298	-1.1555
8	6.47	0.0	0.9341	-1.1356	-0.0078	-0.0056	-0.0175	0.2856	0.0482	0.2374	-1.2148
9	8.54	0.0	1.2163	-1.5316	-0.0099	-0.0022	-0.0232	0.2969	0.0509	0.2460	-1.2394
10	10.58	0.0	1.4953	-2.1242	-0.0130	-0.0154	-0.0222	0.3105	0.0509	0.2596	-1.2538
11	12.63	0.0	2.0940	-2.6741	-0.0135	-0.0137	-0.0278	0.3217	0.0509	0.2708	-1.2764
12	14.70	0.01	2.5510	-3.2341	-0.0361	0.0160	-0.0268	0.3345	0.0481	0.2864	-1.3344
13	16.76	0.01	3.0744	-4.3027	-0.0280	0.0072	-0.0256	0.3534	0.0481	0.3053	-1.3977
14	18.88	0.01	3.6511	-5.3668	-0.0413	0.0259	-0.0243	0.3769	0.0454	0.3286	-1.4690
15	20.90	0.0	4.2537	-6.4980	-0.0253	0.0257	-0.0297	0.3961	0.0427	0.3534	-1.5257
16	23.07	0.01	4.9755	-7.6459	-0.0905	0.0730	-0.0308	0.4204	0.0373	0.3835	-1.5769
17	0.34	0.0	0.0754	-0.0635	-0.0010	-0.0339	-0.0065	0.2737	0.0454	0.2283	-0.8416

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST 3 PART 66 MACH 4.63 RATIO=6 PHI 45.0 CONF 81-0F34 L 0.0 DEL1 0 DEL2 0 DEL3 0 DEL4 0 TRANSITION FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	ACP
1	-2.46	0.0	-0.4150	0.5361	0.0066	-0.0541	-0.0211	0.2767	0.0509	0.2258	-1.2795
2	-1.50	0.0	-0.2274	0.3114	-0.0113	-0.0170	-0.0207	0.2749	0.0481	0.2268	-1.3710
3	-0.46	0.0	-0.0[illegible]	0.151[illegible]	-0.0054	-0.0159	-0.0203	0.2753	0.0481	0.2272	-1.6051
4	0.59	0.0	0.0590	-0.0324	-0.0170	-0.0106	-0.0199	0.2736	0.0481	0.2255	-0.5559
5	1.43	0.0	0.1660	-0.1576	-0.0200	-0.0020	-0.0185	0.2749	0.0481	0.2268	-0.9494
6	2.60	0.0	0.3113	-0.3191	-0.0241	0.0005	-0.0170	0.2757	0.0481	0.2276	-1.0251
7	4.58	0.0	0.5146	-0.5946	-0.0154	-0.0012	-0.0206	0.2808	0.0481	0.2327	-1.1302
8	6.71	0.0	0.9359	-1.1271	-0.0255	0.0115	-0.0179	0.2870	0.0509	0.2361	-1.2043
9	8.77	0.0	1.2914	-1.5970	-0.0132	0.0026	-0.0260	0.2954	0.0509	0.2447	-1.2366
10	10.79	0.0	1.6691	-2.0911	-0.0186	0.0033	-0.0341	0.3054	0.0509	0.2545	-1.2476
11	12.96	-0.01	2.0752	-2.6741	-0.0251	0.0105	-0.0351	0.3166	0.0509	0.2657	-1.2886
12	14.93	0.0	2.5253	-3.3435	-0.0491	0.0274	-0.0409	0.3300	0.0509	0.2837	-1.3383
13	17.02	-0.01	3.0444	-4.2822	-0.0521	0.0447	-0.0465	0.3524	0.0481	0.3043	-1.3974
14	19.10	-0.01	3.5976	-5.2083	-0.0544	0.0519	-0.0455	0.3746	0.0454	0.3292	-1.4476
15	21.13	-0.01	4.1544	-6.1685	-0.0662	0.0547	-0.0444	0.3963	0.0427	0.3516	-1.4812
16	23.29	-0.01	4.8334	-7.3294	-0.0786	0.0775	-0.0498	0.4174	0.0373	0.3801	-1.5164
17	0.60	0.0	0.0590	-0.0326	-0.0170	-0.0105	-0.0199	0.2734	0.0427	0.2307	-0.5559

LANGLEY RESEARCH CENTER(LASA) UNITARY PLAN WIND TUNNEL(UPWT)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RNIU-6	RNI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
3	67	2.30	3.0	0.0	81A1P34	15.420	0	0	0	0	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-3.03	0.01	-1.1727	1.6695	-0.0009	-0.0972	-0.0377	0.4764	0.1270	0.3494	-1.4236
2	-2.18	0.01	-0.6710	0.9566	-0.0139	-0.0666	-0.0399	0.4715	0.1228	0.3487	-1.4218
3	-1.16	0.01	-0.1465	0.0321	-0.0025	-0.0459	-0.0320	0.4684	0.1229	0.3459	-1.5356
4	0.01	0.01	-0.0212	0.1014	-0.0184	-0.0453	-0.0312	0.4672	0.1227	0.3445	-4.7821
5	1.10	0.02	0.2842	-0.2852	-0.0351	-0.0145	-0.0303	0.4676	0.1229	0.3447	-0.9895
6	2.17	0.01	0.5995	-0.7213	-0.0212	-0.0354	-0.0331	0.4701	0.1241	0.3460	-1.2032
7	4.38	0.01	1.2605	-1.4633	-0.0205	-0.0352	-0.0279	0.4787	0.1284	0.3503	-1.3354
8	6.58	0.02	1.9735	-2.7673	-0.0447	-0.0030	-0.0281	0.4955	0.1397	0.3558	-1.4022
9	8.77	0.02	2.7113	-3.9050	-0.0397	0.0016	-0.0243	0.5087	0.1482	0.3605	-1.4403
10	10.94	0.02	3.4707	-5.1020	-0.0475	0.0134	-0.0259	0.5246	0.1552	0.3694	-1.4676
11	13.15	0.02	4.3121	-6.3642	-0.0567	0.0353	-0.0273	0.5320	0.1595	0.3725	-1.4768
12	15.42	0.03	5.1910	-7.5832	-0.0739	0.0409	-0.0216	0.5335	0.1580	0.3755	-1.4607
13	17.71	0.02	6.0511	-8.7395	-0.0512	-0.0736	-0.0156	0.5312	0.1454	0.3658	-1.4443
14	19.94	0.02	6.9227	-9.8481	-0.0454	-0.0572	-0.0135	0.5387	0.1384	0.4003	-1.4226
15	22.20	0.03	7.8593	-11.2162	-0.0590	-0.0300	0.0024	0.5498	0.1340	0.4158	-1.4271
16	24.54	0.03	8.8530	-12.7411	-0.0657	-0.0197	-0.0051	0.5553	0.1284	0.4269	-1.4396
17	0.01	0.01	-0.0205	0.1003	-0.0180	-0.0587	-0.0381	0.4668	0.1229	0.3439	-4.8927

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RNI0=n	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
3.	6R	2.30	3.0	45.0	B1.1F34	15.420	0	0	0	0	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-3.41	0.02	-1.1558	1.8208	-0.0104	-0.0715	-0.0305	0.4826	0.1268	0.3558	-1.4024
2	-2.22	0.02	-0.6462	1.0017	-0.0242	-0.0479	-0.0343	0.4755	0.1239	0.3516	-1.4555
3	-1.12	0.02	-0.3618	0.5755	-0.0152	-0.0451	-0.0321	0.4705	0.1223	0.3482	-1.5923
4	0.01	0.02	-0.0509	0.1819	-0.0184	-0.0505	-0.0313	0.4676	0.1226	0.3450	-3.5729
5	1.09	0.02	0.2805	-0.2174	-0.0255	-0.0566	-0.0305	0.4692	0.1238	0.3454	-0.8363
6	2.18	0.02	0.5838	-0.6362	-0.0435	-0.0703	-0.0298	0.4723	0.1239	0.3484	-1.0958
7	4.38	0.01	1.2625	-1.5805	-0.0534	0.0050	-0.0352	0.4836	0.1295	0.3541	-1.2519
8	6.56	0.0	1.8450	-2.4733	-0.0509	0.0155	-0.0372	0.4925	0.1351	0.3574	-1.3052
9	8.76	0.01	2.5935	-3.4522	-0.0725	0.0456	-0.0426	0.5005	0.1394	0.3611	-1.3232
10	10.90	0.0	3.2811	-4.2651	-0.0770	0.0809	-0.0480	0.5073	0.1450	0.3623	-1.3148
11	13.10	0.0	3.9471	-5.2319	-0.0984	0.0906	-0.0497	0.5117	0.1479	0.3638	-1.3122
12	15.35	0.0	4.7355	-6.1501	-0.1033	0.1150	-0.0514	0.5124	0.1450	0.3674	-1.2987
13	17.58	-0.01	5.4773	-7.0737	-0.1017	0.1083	-0.0600	0.5096	0.1393	0.3701	-1.2732
14	19.85	-0.01	6.2712	-7.9834	-0.1039	0.1122	-0.0615	0.5177	0.1394	0.3783	-1.2486
15	22.05	-0.01	7.1063	-8.7964	-0.1272	0.1643	-0.0700	0.5301	0.1464	0.3837	-1.2375
16	24.43	-0.02	8.1162	-10.0966	-0.1499	0.2084	-0.0607	0.5364	0.1479	0.3885	-1.2433
17	0.01	0.02	-0.0314	0.1635	-0.0188	-0.0467	-0.0347	0.4712	0.1239	0.3473	-5.2057

LANGLEY RESEARCH CENTER(LASA) UNITARY PLAN WIND TUNNEL(UPWT)
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	REYNO-M	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
3	69	2.60	3.0	45.0	B1=1F36	15.420	0	0	0	0	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-3.75	0.01	-0.9950	1.2610	0.0025	-0.0870	-0.0222	0.4319	0.1044	0.3275	-1.2679
2	-2.22	0.01	-0.4147	0.7719	0.0040	-0.0482	-0.0212	0.4241	0.1012	0.3279	-1.2557
3	-1.11	0.01	-0.3148	0.4203	-0.0022	-0.0745	-0.0244	0.4259	0.1012	0.3247	-1.3352
4	-0.01	0.01	-0.0367	0.1217	0.0061	-0.0911	-0.0197	0.4216	0.1012	0.3204	-3.5066
5	1.07	0.01	0.2124	-0.1502	0.0037	-0.0729	-0.0230	0.4235	0.1012	0.3223	-0.7053
6	2.12	0.01	0.4833	-0.4698	-0.0210	-0.0460	-0.0263	0.4292	0.1011	0.3281	-0.9721
7	4.24	0.01	1.0371	-1.1624	-0.0304	-0.0313	-0.0269	0.4371	0.1028	0.3343	-1.1401
8	6.41	0.0	1.6271	-1.9965	-0.0206	-0.0361	-0.0275	0.4436	0.1044	0.3392	-1.2271
9	8.58	0.0	2.2494	-2.8567	-0.0342	-0.0256	-0.0340	0.4488	0.1076	0.3412	-1.2702
10	10.72	0.0	2.8642	-3.6822	-0.0493	0.0130	-0.0364	0.4564	0.1108	0.3456	-1.2767
11	12.88	0.0	3.5335	-4.4845	-0.0706	0.0463	-0.0388	0.4613	0.1076	0.3537	-1.2691
12	15.07	0.0	4.2167	-5.3249	-0.0825	0.0852	-0.0450	0.4675	0.1060	0.3615	-1.2628
13	17.25	-0.01	4.9157	-6.0970	-0.0853	0.0648	-0.0472	0.4780	0.1044	0.3736	-1.2403
14	19.44	-0.01	5.6723	-6.9965	-0.0894	0.0475	-0.0492	0.4895	0.1060	0.3835	-1.2282
15	21.63	-0.01	6.4473	-7.8919	-0.1054	0.0977	-0.0553	0.5030	0.1076	0.3954	-1.2241
16	23.96	-0.01	7.3240	-8.9700	-0.1023	0.0365	-0.0651	0.5205	0.1075	0.4130	-1.2239
17	0.0	0.01	-0.0468	0.1348	-0.0019	-0.0781	-0.0197	0.4240	0.1028	0.3212	-3.0094

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)

PAGE 1 OF 1
SHEET 1 OF 1

MANTIS MISSILE TAIL EFFECTS DATA

TEST	MACH	MACH RATIO=0	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
3	70	2.60 3.0	0.0	01=1F34	15.420	0	0	0	0	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-3.92	0.0	-1.0269	1.3176	0.0084	-0.0946	-0.0204	0.4255	0.1031	0.3224	-1.2830
2	-2.32	0.01	-0.6613	0.7551	-0.0049	-0.0704	-0.0252	0.4260	0.1031	0.3229	-1.2558
3	-2.32	0.01	-0.6615	0.7556	-0.0049	-0.0708	-0.0252	0.4261	0.1031	0.3230	-1.2559
4	-1.27	0.01	-0.3328	0.4233	-0.0124	-0.0473	-0.0245	0.4258	0.1031	0.3227	-1.2733
5	-0.16	0.01	-0.0502	0.1100	-0.0176	-0.0406	-0.0237	0.4232	0.1031	0.3201	-2.1900
6	0.92	0.02	0.2155	-0.1614	-0.0384	-0.0337	-0.0268	0.4250	0.1031	0.3219	-0.8436
7	1.97	0.01	0.4814	-0.5007	-0.0266	-0.0467	-0.0222	0.4287	0.1031	0.3256	-1.0400
8	3.18	0.02	1.0234	-1.0302	-0.0457	-0.0131	-0.0207	0.4339	0.1047	0.3292	-1.1958
9	6.27	0.02	1.6361	-2.1811	-0.0480	0.0014	-0.0192	0.4440	0.1111	0.3329	-1.2613
10	8.45	0.02	2.2541	-2.9622	-0.0475	0.0024	-0.0216	0.4554	0.1159	0.3395	-1.3142
11	10.57	0.02	2.8458	-3.9666	-0.0474	0.0038	-0.0198	0.4666	0.1191	0.3475	-1.3462
12	12.77	0.02	3.6715	-5.0237	-0.0633	0.0149	-0.0180	0.4703	0.1191	0.3512	-1.3683
13	14.94	0.02	4.4966	-6.0037	-0.0683	0.0223	-0.0121	0.4811	0.1143	0.3668	-1.3630
14	17.14	0.02	5.1743	-7.0550	-0.0652	0.0194	-0.0141	0.4947	0.1111	0.3836	-1.3622
15	19.39	0.03	5.9758	-8.1583	-0.0754	0.0242	-0.0081	0.5077	0.1079	0.3998	-1.3643
16	21.55	0.03	6.8146	-9.4182	-0.0655	-0.0192	-0.0060	0.5206	0.1031	0.4175	-1.3813
17	23.43	0.03	7.7477	-10.6052	-0.0721	-0.0160	-0.0076	0.5344	0.0951	0.4393	-1.3946
18	-0.18	0.01	-0.0666	0.1280	-0.0335	-0.0404	-0.0237	0.4222	0.1031	0.3191	-2.0000

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RATIO-B	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
3	71	3.95	3.0	45.0	M1-183A	15.420	0	0	0	0	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-3.53	0.0	-0.6376	0.7725	0.0094	-0.0606	-0.0070	0.3358	0.0683	0.2675	-1.1231
2	-2.01	0.0	-0.4655	0.4829	0.0284	-0.0740	-0.0062	0.3347	0.0683	0.2664	-1.1414
3	-0.96	0.0	-0.2883	0.2517	0.0227	-0.0685	-0.0109	0.3299	0.0683	0.2616	-1.2202
4	0.13	0.0	0.0044	0.0224	0.0249	-0.0740	-0.0103	0.3256	0.0683	0.2573	3.3500
5	1.15	0.0	0.2045	-0.1830	0.0161	-0.0668	-0.0098	0.3329	0.0683	0.2646	-0.8724
6	2.15	0.0	0.4257	-0.4247	-0.0083	-0.0397	-0.0093	0.3390	0.0683	0.2707	-0.9953
7	4.26	0.0	0.8419	-0.8751	-0.0205	-0.0103	-0.0134	0.3450	0.0683	0.2767	-1.0429
8	6.35	0.0	1.2850	-1.3661	-0.0044	-0.0340	-0.0122	0.3527	0.0683	0.2844	-1.0631
9	8.47	0.0	1.7524	-1.9107	-0.0134	-0.0185	-0.0163	0.3609	0.0683	0.2926	-1.0916
10	10.53	-0.01	2.3113	-2.6329	-0.0154	-0.0071	-0.0202	0.3725	0.0704	0.3021	-1.1391
11	12.63	-0.01	2.9467	-3.3914	-0.0257	-0.0010	-0.0241	0.3915	0.0704	0.3211	-1.1748
12	14.79	-0.01	3.5253	-4.1519	-0.0423	0.0169	-0.0278	0.4145	0.0683	0.3462	-1.1777
13	16.91	0.0	4.1566	-4.9041	-0.0439	0.0409	-0.0307	0.4342	0.0683	0.3659	-1.1798
14	19.08	-0.01	4.8016	-5.7566	-0.0665	0.0442	-0.0454	0.4574	0.0662	0.3912	-1.1841
15	21.18	-0.01	5.4405	-6.7522	-0.0715	0.0324	-0.0542	0.4855	0.0640	0.4215	-1.1903
16	23.34	-0.01	6.0838	-7.5194	-0.0859	0.0022	-0.0676	0.5108	0.0619	0.4489	-1.1742
17	0.12	0.0	0.0232	0.0116	0.0159	-0.0561	-0.0103	0.3227	0.0662	0.2565	0.5095

PAGE 1 OF 1
SHEET 1 OF 1

LANGLEY RESEARCH CENTER (LASA) UNITARY PLAN WIND TUNNEL (UPWT)
MARTIN MISSILE TAIL EFFECTS DATA

TEST PART MACH WAID=A PHI CONF L DEL1 DEL2 DEL3 DEL4 TRANSITION
4 72 3.95 3.0 0.0 B1A1F34 15.420 0 0 0 0 FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-3.73	0.0	-0.7122	0.0022	0.0094	-0.0561	-0.0125	0.3260	0.0687	0.2573	-1.1263
2	-2.21	0.0	-0.4117	0.0711	0.0248	-0.0732	-0.0064	0.3254	0.0687	0.2572	-1.1442
3	-1.19	0.0	-0.2045	0.0942	-0.0101	-0.0416	-0.0110	0.3257	0.0688	0.2569	-1.2186
4	-0.08	0.0	0.0013	0.0293	0.0169	-0.0429	-0.0104	0.3207	0.0688	0.2519	22.5231
5	0.96	0.0	0.2067	-0.1877	-0.0083	-0.0308	-0.0098	0.3275	0.0688	0.2587	-0.9169
6	1.96	0.0	0.4039	-0.4017	0.0096	-0.0391	-0.0145	0.3315	0.0688	0.2627	-0.9896
7	3.08	0.0	0.6134	-0.6483	0.0017	-0.0427	-0.0133	0.3366	0.0688	0.2678	-1.0429
8	4.16	0.0	1.2567	-1.3465	-0.0043	-0.0207	-0.0121	0.3469	0.0709	0.2760	-1.0858
9	5.27	0.0	1.7391	-1.9394	-0.0101	-0.0126	-0.0160	0.3568	0.0709	0.2859	-1.1155
10	10.34	0.01	2.2795	-2.5909	-0.0167	-0.0172	-0.0197	0.3690	0.0709	0.2981	-1.1366
11	12.46	0.01	2.8123	-3.2286	-0.0240	-0.0074	-0.0183	0.3899	0.0709	0.3190	-1.1457
12	14.56	0.01	3.4147	-3.9665	-0.0506	0.0276	-0.0219	0.4123	0.0688	0.3435	-1.1622
13	16.73	0.01	4.0695	-4.7316	-0.0345	-0.0062	-0.0150	0.4350	0.0667	0.3683	-1.1873
14	18.87	0.01	4.7567	-5.7644	-0.0358	0.0108	-0.0185	0.4548	0.0624	0.3924	-1.2135
15	20.97	0.01	5.5137	-6.4675	-0.0343	-0.0035	-0.0166	0.4774	0.0581	0.4193	-1.2492
16	23.14	0.01	6.4069	-8.2984	-0.0276	-0.0242	-0.0092	0.5011	0.0539	0.4472	-1.2952
17	-0.11	0.0	0.0018	0.0286	-0.0042	-0.0361	-0.0104	0.3214	0.0667	0.2547	15.8778

LANGLEY RESEARCH CENTER (NASA) UNITARY PLAN WIND TUNNEL (UPWT)
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RN/D-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
3	73	4.63	3.0	0.0	B1B1F34	15.420	0	0	0	0	FIXED

POINT	ALPHA	BETA	CY	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-3.35	0.0	-0.5705	0.5480	0.0149	-0.0565	-0.0152	0.2998	0.0538	0.2460	-0.9606
2	-1.83	0.0	-0.3073	0.2971	0.0100	-0.0477	-0.0144	0.2976	0.0538	0.2438	-0.9668
3	-0.79	0.0	-0.1163	0.1247	0.0045	-0.0307	-0.0134	0.2956	0.0538	0.2418	-1.0724
4	0.27	0.0	0.0749	-0.0477	-0.0012	-0.0134	-0.0132	0.2920	0.0538	0.2382	-0.6363
5	1.27	0.0	0.2373	-0.1826	0.0205	-0.0509	-0.0127	0.2976	0.0538	0.2438	-0.7696
6	2.31	0.0	0.4493	-0.3475	-0.0120	-0.0194	-0.0120	0.3021	0.0538	0.2483	-0.8868
7	4.40	0.0	0.7987	-0.7148	0.0051	-0.0411	-0.0177	0.3066	0.0538	0.2528	-0.8949
8	6.44	0.0	1.1495	-1.1283	-0.0027	-0.0307	-0.0165	0.3171	0.0538	0.2633	-0.9406
9	8.50	0.0	1.4883	-1.5455	-0.0089	-0.0220	-0.0220	0.3259	0.0538	0.2721	-0.9983
10	10.57	0.0	2.1189	-2.1767	-0.0167	-0.0116	-0.0206	0.3463	0.0538	0.2925	-1.0273
11	12.66	0.0	2.6163	-2.7867	-0.0215	-0.0066	-0.0260	0.3679	0.0538	0.3141	-1.0659
12	14.73	0.01	3.1649	-3.5020	-0.0259	-0.0160	-0.0246	0.3856	0.0538	0.3318	-1.1065
13	16.82	0.01	3.7632	-4.4016	-0.0233	-0.0141	-0.0231	0.4072	0.0511	0.3561	-1.1696
14	14.97	0.0	4.4513	-5.4483	-0.0185	-0.0045	-0.0781	0.4292	0.0484	0.3808	-1.2240
15	21.02	0.01	5.1496	-6.6621	-0.0161	0.0193	-0.0199	0.4567	0.0456	0.4091	-1.2870
16	23.20	0.01	5.9130	-8.1333	-0.0470	0.0359	-0.0246	0.4870	0.0402	0.4418	-1.3520
17	0.25	0.0	0.0745	-0.0470	0.0259	-0.0078	-0.0132	0.2951	0.0484	0.2467	-0.6309

PAGE 1 OF 1
SHEET 1 OF 1

LANGLEY RESEARCH CENTER(-ASA) UNITARY PLAN WIND TUNNEL(UPWT)
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
3	74	4.63	3.0	45.0	B1A1F3A	15.420	0	0	0	0	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-3.11	0.0	-0.5405	0.0563	0.0334	-0.1004	-0.0083	0.3091	0.0505	0.2586	-0.9925
2	-1.58	0.0	-0.3066	0.0318	0.0277	-0.0444	-0.0142	0.3069	0.0533	0.2536	-1.0886
3	-0.57	0.0	-0.1224	0.1557	0.0232	-0.0449	-0.0137	0.2999	0.0532	0.2467	-1.2666
4	0.50	0.0	0.0544	-0.0103	0.0181	-0.0439	-0.0132	0.2970	0.0532	0.2438	-0.1727
5	1.53	0.0	0.2258	-0.1542	0.0284	-0.0411	-0.0127	0.3054	0.0533	0.2521	-0.6830
6	2.56	0.0	0.4249	-0.3555	0.0293	-0.0433	-0.0188	0.3103	0.0533	0.2570	-0.8327
7	4.64	0.0	0.7976	-0.6930	0.0046	-0.0458	-0.0178	0.3148	0.0533	0.2615	-0.8689
8	6.70	0.0	1.2142	-1.1159	-0.0056	-0.0263	-0.0234	0.3225	0.0533	0.2692	-0.9185
9	8.76	0.0	1.6716	-1.6195	-0.0105	-0.0231	-0.0222	0.3302	0.0532	0.2770	-0.9689
10	10.81	0.0	2.1503	-2.2355	-0.0155	-0.0247	-0.0277	0.3471	0.0560	0.2911	-1.0396
11	12.91	-0.01	2.7246	-2.9535	-0.0060	-0.0322	-0.0331	0.3675	0.0560	0.3115	-1.0876
12	15.01	0.0	3.2926	-3.7211	-0.0312	-0.0050	-0.0384	0.3901	0.0533	0.3368	-1.1302
13	17.10	-0.01	3.8314	-4.4860	-0.0314	0.0052	-0.0370	0.4131	0.0533	0.3598	-1.1715
14	19.23	-0.01	4.4256	-5.3356	-0.0478	0.0325	-0.0422	0.4384	0.0532	0.3856	-1.2119
15	21.27	-0.01	5.3351	-6.3065	-0.0394	0.0235	-0.0473	0.4675	0.0505	0.4170	-1.2312
16	23.45	-0.01	6.0742	-7.4182	-0.0551	0.0170	-0.0549	0.4961	0.0478	0.4483	-1.2213
17	0.52	0.0	0.0608	0.0005	0.0189	-0.0775	-0.0132	0.2979	0.0505	0.2474	0.0079

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RNLU-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
3	75	2.30	3.0	0.0	M1W1F34	15.420	0	-20	0	-20	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAM	CAF	XCP
1	-3.94	0.02	-3.1541	10.1241	-0.0760	-0.1191	-0.0420	1.2470	0.1445	1.1425	-3.2098
2	-2.26	0.02	-2.4427	9.3477	-0.0344	-0.1158	-0.0321	1.2366	0.1431	1.0933	-3.8456
3	-1.24	0.03	-2.4915	9.1716	-0.0509	-0.0869	-0.0323	1.2040	0.1445	1.0605	-3.8351
4	-0.10	0.02	-2.0683	8.7551	-0.0319	-0.1091	-0.0327	1.1779	0.1488	1.0291	-4.2371
5	1.02	0.03	-1.7321	8.2981	-0.0409	-0.0567	-0.0351	1.1391	0.1514	0.9877	-4.7858
6	2.06	0.02	-1.4011	7.7730	-0.0309	-0.0827	-0.0338	1.0947	0.1517	0.9430	-5.5478
7	4.31	0.02	-0.6697	6.5809	-0.0461	-0.0595	-0.0312	0.9956	0.1544	0.8412	-9.7967
8	6.47	0.02	0.0484	5.3780	-0.0515	-0.0441	-0.0356	0.9036	0.1601	0.7435	111.1165
9	8.62	0.03	0.8275	4.2715	-0.0654	-0.0216	-0.0309	0.8049	0.1672	0.6376	4.9204
10	10.80	0.02	1.6673	2.6223	-0.0546	-0.0244	-0.0293	0.7014	0.1700	0.5314	1.5728
11	13.09	0.03	2.5616	1.1076	-0.0667	-0.0247	-0.0276	0.5948	0.1714	0.4234	0.4321
12	15.35	0.03	3.4452	-0.1578	-0.0716	-0.0271	-0.0153	0.5179	0.1686	0.3493	-0.0457
13	17.61	0.03	4.2669	-1.1076	-0.0500	-0.0883	-0.0238	0.4713	0.1672	0.3041	-0.2594
14	19.93	0.03	5.0273	-1.7794	-0.0517	-0.1157	-0.0150	0.4331	0.1601	0.2730	-0.3540
15	22.13	0.03	5.8305	-2.6157	-0.0548	-0.0979	-0.0096	0.3993	0.1616	0.2377	-0.4486
16	24.45	0.04	6.7255	-3.6175	-0.0844	-0.0637	-0.0076	0.3578	0.1602	0.1976	-0.5379
17	-0.10	0.03	-2.0533	8.7517	-0.0465	-0.0904	-0.0361	1.1774	0.1469	1.0285	-4.2623

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	MACH	RN/L=E-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
3	7A	2.66 3.0	0.0	B1=1F34	15.420	0	-20	0	-20	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-4.00	0.01	-2.7197	8.9584	-0.0252	-0.1114	-0.0362	1.1283	0.1086	1.0197	-3.1578
2	-2.41	0.01	-2.3082	6.6647	-0.0217	-0.1153	-0.0369	1.0922	0.1070	0.9752	-3.4939
3	-1.35	0.01	-2.0407	7.7215	-0.0191	-0.1080	-0.0335	1.0547	0.1086	0.9461	-3.7037
4	-0.23	0.02	-1.7407	7.9215	-0.0159	-0.1216	-0.0360	1.0227	0.1102	0.9125	-4.2061
5	0.85	0.01	-1.4427	6.2963	-0.0174	-0.1024	-0.0328	0.9848	0.1119	0.8749	-4.7801
6	1.89	0.01	-1.1432	6.4257	-0.0147	-0.1053	-0.0315	0.9475	0.1134	0.8341	-5.6208
7	4.09	0.02	-0.4852	5.3357	-0.0209	-0.0959	-0.0328	0.8550	0.1150	0.7400	-10.9969
8	6.22	0.02	0.1613	4.3116	-0.0246	-0.0842	-0.0244	0.7709	0.1199	0.6510	38.5137
9	8.38	0.02	0.8238	3.1565	-0.0335	-0.0561	-0.0251	0.6823	0.1214	0.5609	3.8462
10	10.55	0.02	1.4849	1.8167	-0.0375	-0.0545	-0.0275	0.5656	0.1247	0.4609	1.1320
11	12.68	0.02	2.1242	0.7576	-0.0518	-0.0351	-0.0219	0.5234	0.1247	0.3987	0.3268
12	14.89	0.02	3.0076	-0.0300	-0.0423	-0.0519	-0.0242	0.4924	0.1248	0.3678	-0.0100
13	17.08	0.02	3.6398	-0.5044	-0.0494	-0.0525	-0.0224	0.4803	0.1230	0.3573	-0.1386
14	19.36	0.03	4.3109	-1.0073	-0.0590	-0.0517	-0.0167	0.4693	0.1199	0.3494	-0.2337
15	21.50	0.03	4.9450	-1.5521	-0.0483	-0.0457	-0.0150	0.4532	0.1166	0.3366	-0.3194
16	23.76	0.03	5.7450	-2.2963	-0.0529	-0.0498	-0.0131	0.4375	0.1134	0.3241	-0.3997
17	-0.23	0.02	-1.7394	7.9326	-0.0168	-0.1205	-0.0379	1.0241	0.1103	0.9138	-4.2157

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	REI.-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
3	77	3.45	3.0	0.0	B1-1F34	15.420	0	-20	0	-20	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-3.00	0.0	-2.0453	6.4937	-0.0167	-0.0607	-0.0219	0.8765	0.0675	0.8090	-3.1769
2	-2.24	0.0	-1.7007	6.0203	-0.0047	-0.0717	-0.0286	0.8316	0.0656	0.7662	-3.5316
3	-1.72	0.0	-1.4772	5.6921	0.0018	-0.0795	-0.0295	0.8038	0.0654	0.7384	-3.8533
4	-0.13	0.0	-1.7302	5.3144	0.0099	-0.0893	-0.0306	0.7716	0.0654	0.7062	-4.3203
5	0.90	0.0	-0.9998	4.9359	0.0129	-0.0925	-0.0292	0.7355	0.0675	0.6660	-4.9369
6	1.93	0.0	-0.7324	4.4673	0.0180	-0.0934	-0.0278	0.6980	0.0675	0.6305	-6.0995
7	4.05	0.0	-0.2176	3.9151	0.0040	-0.0797	-0.0248	0.6242	0.0675	0.5567	-16.6137
8	6.14	0.01	0.3344	2.6847	-0.0004	-0.0493	-0.0169	0.5479	0.0696	0.4783	8.0285
9	8.26	0.0	0.8411	1.7713	-0.0003	-0.0355	-0.0157	0.4826	0.0696	0.4130	2.0103
10	10.33	0.01	1.3826	1.2025	-0.0078	-0.0444	-0.0144	0.4584	0.0718	0.3866	0.8696
11	12.42	0.0	1.6369	0.9431	-0.0073	-0.0486	-0.0181	0.4638	0.0697	0.3941	0.5148
12	14.55	0.01	2.3016	0.7647	-0.0127	-0.0555	-0.0218	0.4783	0.0697	0.4086	0.3322
13	16.67	0.01	2.7869	0.5983	-0.0206	-0.0596	-0.0202	0.4942	0.0675	0.4267	0.2147
14	18.43	0.01	3.3057	0.3764	-0.0314	-0.0514	-0.0238	0.5066	0.0654	0.4412	0.1146
15	20.97	0.01	3.6704	0.0926	-0.0354	-0.0565	-0.0221	0.5164	0.0633	0.4531	0.0230
16	23.14	0.02	4.5487	-0.3554	-0.0495	-0.0720	-0.0097	0.5211	0.0612	0.4599	-0.0781
17	-0.13	0.0	-1.2281	5.3057	0.0131	-0.1030	-0.0305	0.7670	0.0654	0.7016	-4.3203

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
3	78	4.63	3.0	0.0	B1W1F34	15.420	0	-20	0	-20	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-3.40	0.0	-1.7950	5.6810	-0.0122	-0.0454	-0.0212	0.7843	0.0496	0.7347	-3.1649
2	-1.82	0.0	-1.4326	5.1556	0.0006	-0.0608	-0.0232	0.7350	0.0496	0.6854	-3.5988
3	-0.84	0.0	-1.2390	4.8623	0.0108	-0.0775	-0.0245	0.7070	0.0496	0.6574	-3.9244
4	0.24	0.0	-0.9968	4.4911	0.0204	-0.0891	-0.0260	0.6761	0.0496	0.6265	-4.5055
5	1.28	0.0	-0.7530	4.0805	-0.0040	-0.0536	-0.0243	0.5400	0.0496	0.5904	-5.4190
6	2.27	0.0	-0.5337	3.7017	-0.0001	-0.0581	-0.0228	0.6051	0.0496	0.5555	-6.9359
7	4.38	0.0	-0.0506	2.9619	0.0036	-0.0442	-0.0193	0.5353	0.0496	0.4857	-58.5363
8	6.42	0.0	0.4594	2.1118	0.0109	-0.0525	-0.0161	0.4663	0.0523	0.4140	4.5978
9	8.53	0.0	0.9382	1.5435	0.0075	-0.0476	-0.0150	0.4369	0.0523	0.3846	1.6995
10	10.59	0.0	1.3936	1.3026	-0.0042	-0.0434	-0.0270	0.4401	0.0523	0.3878	0.9994
11	12.65	0.0	1.8932	1.1610	-0.0048	-0.0491	-0.0257	0.4572	0.0523	0.4049	0.6857
12	14.71	0.0	2.0763	1.0884	-0.0043	-0.0678	-0.0243	0.4743	0.0496	0.4247	0.5242
13	16.80	0.01	2.5061	0.9551	-0.0298	-0.0353	-0.0295	0.4946	0.0496	0.4450	0.3811
14	18.96	0.01	3.0032	0.7217	-0.0275	-0.0700	-0.0347	0.5133	0.0469	0.4664	0.2403
15	20.96	0.01	3.5020	0.4143	-0.0545	-0.0698	-0.0331	0.5290	0.0441	0.4849	0.1183
16	23.14	0.01	4.1176	-0.0276	-0.0484	-0.0135	-0.0313	0.5399	0.0441	0.4958	-0.0067
17	0.23	0.0	-0.9969	4.4913	0.0190	-0.0832	-0.0260	0.6764	0.0469	0.6295	-4.5052

LANGLEY RESEARCH CENTER (NASA) UNITARY PLAN WIND TUNNEL (UPWT)
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RATIO=B	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
3	79	2.30	2.5	45.0	81-1F34	15.420	20	-20	20	-20	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-3.81	0.07	-4.0705	14.2059	-0.0269	-0.0948	-0.0321	2.0453	0.1635	1.9018	-3.4899
2	-2.21	0.07	-3.4111	13.0974	-0.0326	-0.0940	-0.0311	2.0020	0.1652	1.8368	-3.7682
3	-1.17	0.07	-3.2412	13.1631	-0.0229	-0.1171	-0.0346	1.9576	0.1667	1.7909	-4.0117
4	-0.07	0.07	-2.9875	12.7584	-0.0346	-0.0827	-0.0256	1.9117	0.1684	1.7433	-4.2707
5	1.03	0.06	-2.6623	12.2953	-0.0206	-0.0876	-0.0333	1.8608	0.1702	1.6906	-4.6183
6	2.05	0.06	-2.3564	11.8193	-0.0275	-0.0774	-0.0327	1.8029	0.1720	1.6309	-5.0158
7	4.24	0.06	-1.6344	10.9551	-0.0364	-0.0567	-0.0355	1.6471	0.1719	1.4952	-6.5177
8	6.35	0.06	-0.9754	9.4584	-0.0749	0.0178	-0.0388	1.5253	0.1719	1.3534	-10.2098
9	8.54	0.05	-0.2364	8.3644	-0.0636	-0.0171	-0.0390	1.3900	0.1770	1.2130	-35.7013
10	10.70	0.06	0.4966	7.3859	-0.0940	0.0743	-0.0389	1.2610	0.1822	1.0788	15.2347
11	12.83	0.05	1.1652	6.4632	-0.0904	0.0602	-0.0418	1.1393	0.1857	0.9536	5.4076
12	15.02	0.06	1.8488	5.6955	-0.0730	0.0469	-0.0365	1.0399	0.1874	0.8525	3.8477
13	17.24	0.06	2.5156	4.9102	-0.0886	0.0406	-0.0479	0.9495	0.1874	0.7621	1.8869
14	19.50	0.06	3.1512	4.2157	-0.0926	0.0197	-0.0428	0.8699	0.1857	0.6842	1.2592
15	21.44	0.05	3.6165	3.6822	-0.1184	0.0571	-0.0548	0.7964	0.1857	0.6107	0.8484
16	23.49	0.05	4.0293	2.6736	-0.1264	0.0448	-0.0560	0.7341	0.1857	0.5484	0.5426
17	-0.06	0.07	-2.9826	12.7452	-0.0220	-0.1040	-0.0338	1.9072	0.1689	1.7383	-4.2732

LANGLEY RESEARCH CENTER(LASA) UNITARY PLAN WIND TUNNEL(UPWT)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST 3 | PART 80 | MACH 2.60 | ALPHA 3.0 | PHI 45.0 | CONF B1=1F34 | L 15.420 | DEL1 20 | DEL2 -20 | DEL3 20 | DEL4 -20 | TRANSITION FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	ACP
1	-3.81	0.07	-3.4761	11.9492	-0.0145	-0.1154	-0.0267	1.7872	0.1144	1.6728	-3.4375
2	-2.20	0.06	-3.0717	11.3633	0.0015	-0.1231	-0.0298	1.7208	0.1159	1.6041	-3.6995
3	-1.17	0.06	-2.7774	10.9364	0.0159	-0.1287	-0.0331	1.6714	0.1160	1.5554	-3.9370
4	-0.37	0.06	-2.4843	10.4967	0.0013	-0.1232	-0.0325	1.6216	0.1160	1.5056	-4.2244
5	1.02	0.05	-2.1791	10.0499	-0.0040	-0.1127	-0.0319	1.5644	0.1176	1.4512	-4.6120
6	2.05	0.05	-1.8972	9.6013	-0.0113	-0.0938	-0.0314	1.5171	0.1207	1.3964	-5.0608
7	4.23	0.05	-1.2459	8.5514	-0.0306	-0.0534	-0.0341	1.3899	0.1224	1.2675	-6.8636
8	6.37	0.05	-0.6197	7.5551	-0.0439	-0.0325	-0.0292	1.2679	0.1255	1.1424	-12.1915
9	8.54	0.04	0.0069	6.6349	-0.0464	-0.0184	-0.0294	1.1488	0.1287	1.0701	962.1653
10	10.65	0.04	0.6294	5.8089	-0.0592	0.0054	-0.0333	1.0446	0.1320	0.9126	9.2262
11	12.80	0.04	1.2814	5.0301	-0.0564	-0.0073	-0.0360	0.9502	0.1336	0.8166	3.9255
12	14.99	0.04	1.9268	4.2964	-0.0708	0.0022	-0.0371	0.8672	0.1335	0.7337	2.2277
13	17.16	0.04	2.5584	3.7760	-0.0735	0.0175	-0.0300	0.8145	0.1336	0.6809	1.4759
14	19.47	0.04	3.2752	3.1774	-0.0897	0.0343	-0.0368	0.7599	0.1320	0.6279	0.9701
15	21.63	0.04	3.9327	2.6718	-0.0891	-0.0057	-0.0371	0.7258	0.1320	0.5938	0.6795
16	23.86	0.04	4.6618	2.1562	-0.0948	0.0033	-0.0452	0.6994	0.1319	0.5675	0.4825
17	-0.08	0.06	-2.4731	10.4925	-0.0096	-0.1174	-0.0286	1.6212	0.1175	1.5037	-4.2427

LANGLEY RESEARCH CENTER (NASA) UNITARY PLAN WIND TUNNEL (UPWT)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RN/FT×10⁻⁶	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
3	B1	3.95	3.0	45.0	B1-B4	15.420	20	-20	20	-20	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-3.56	0.03	-2.5939	8.9813	0.0135	-0.1062	-0.0257	1.3818	0.0645	1.3173	-3.4625
2	-2.80	0.03	-2.2381	8.3963	0.0031	-0.0841	-0.0303	1.3136	0.0645	1.2491	-3.7515
3	-1.80	0.03	-2.0202	8.0365	0.0250	-0.1225	-0.0246	1.2697	0.0645	1.2052	-3.9772
4	0.08	0.03	-1.7491	7.5996	0.0328	-0.0805	-0.0296	1.2225	0.0666	1.1559	-4.3177
5	1.13	0.03	-1.5123	7.1714	0.0163	-0.1001	-0.0289	1.1717	0.0666	1.1051	-4.7421
6	2.16	0.03	-1.2812	6.7215	-0.0014	-0.0626	-0.0232	1.1151	0.0667	1.0484	-5.3294
7	4.26	0.02	-0.7864	5.8276	-0.0079	-0.0660	-0.0222	1.0125	0.0688	0.9437	-7.9331
8	6.31	0.02	-0.2963	5.2063	-0.0262	-0.0359	-0.0213	0.9325	0.0709	0.8616	-19.5506
9	8.45	0.02	0.2210	4.5506	-0.0267	-0.0264	-0.0273	0.8561	0.0709	0.7852	20.6353
10	10.53	0.02	0.7421	3.9360	-0.0271	-0.0151	-0.0331	0.7923	0.0730	0.7193	5.3038
11	12.61	0.02	1.2639	3.4357	-0.0326	-0.0133	-0.0378	0.7506	0.0730	0.6776	2.7621
12	14.73	0.02	1.7406	3.1581	-0.0222	-0.0407	-0.0239	0.7370	0.0730	0.6640	1.8316
13	16.87	0.02	2.2049	2.9422	-0.0262	-0.0437	-0.0203	0.7357	0.0730	0.6627	1.2877
14	19.07	0.02	2.6554	2.7276	-0.0294	-0.0054	-0.0186	0.7339	0.0730	0.6609	0.9551
15	21.15	0.02	3.0214	2.5356	-0.0478	-0.0711	-0.0246	0.7335	0.0730	0.6605	0.7409
16	23.37	0.02	4.0644	2.3243	-0.0540	-0.0497	-0.0307	0.7311	0.0730	0.6581	0.5718
17	0.08	0.03	-1.7596	7.5866	0.0302	-0.1159	-0.0260	1.2157	0.0709	1.1448	-4.3152

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)
MARTIN MISSILE TAIL EFFECTS DATA

PAGE 1 OF 1
SHEET 1 OF 1

TEST	PART	MACH	RNIU-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
3	82	4.63	3.0	45.0	B14F34	15.420	20	-20	20	-20	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-3.13	0.02	-2.2533	7.0265	0.0142	-0.1053	-0.0198	1.2320	0.0484	1.1836	-3.4735
2	-1.56	0.02	-1.4063	7.2411	0.0056	-0.0856	-0.0191	1.1612	0.0484	1.1128	-5.7985
3	-0.57	0.02	-1.0400	6.8701	0.0184	-0.1161	-0.0254	1.1161	0.0484	1.0697	-6.0874
4	0.49	0.02	-1.4554	6.6784	0.0305	-0.1175	-0.0249	1.0684	0.0484	1.0200	-6.4421
5	1.54	0.02	-1.2245	6.0495	0.0332	-0.1181	-0.0245	1.0180	0.0484	0.9696	-6.9569
6	2.53	0.02	-0.9981	5.8962	-0.0018	-0.0896	-0.0241	0.9691	0.0484	0.9207	-6.7205
7	4.44	0.02	-0.5043	4.9684	-0.0189	-0.0546	-0.0231	0.8817	0.0511	0.8306	-9.7584
8	6.69	0.02	-0.0567	4.3518	-0.0334	-0.0328	-0.0289	0.8061	0.0511	0.7550	-76.7674
9	7.75	0.02	0.1691	3.7933	-0.0477	-0.0160	-0.0303	0.7433	0.0511	0.6922	10.3050
10	10.79	0.01	0.8352	3.2843	-0.0185	-0.0347	-0.0313	0.7030	0.0538	0.6492	3.9324
11	12.86	0.01	1.2326	3.0990	-0.0131	-0.0554	-0.0247	0.6984	0.0538	0.6446	2.5142
12	14.97	0.01	1.6957	2.9094	-0.0086	-0.0491	-0.0208	0.7022	0.0538	0.6484	1.7160
13	17.05	0.01	2.1796	2.7174	-0.0225	-0.0603	-0.0236	0.7106	0.0538	0.6568	1.2467
14	19.22	0.01	2.6933	2.5333	-0.0361	-0.0582	-0.0281	0.7205	0.0538	0.6667	0.9406
15	21.22	0.02	3.1656	2.3837	-0.0453	-0.0448	-0.0297	0.7229	0.0538	0.6691	0.7619
16	23.39	0.02	3.7703	2.1242	-0.0391	-0.0818	-0.0381	0.7185	0.0536	0.6647	0.5634
17	0.49	0.02	-1.4568	6.4867	0.0332	-0.1347	-0.0249	1.0683	0.0511	1.0172	-6.4541

LANGLEY RESEARCH CENTER (NASA) UNITARY PLAN WIND TUNNEL (UPWT)
MARTIN MISSILE TAIL EFFECTS DATA

TEST 3 PART B3 MACH 2.36 RN/10-6 3.0 PHI 0.0 CONF B1-1F0 L 15.420 DEL1 OFF DEL2 OFF DEL3 OFF DEL4 OFF TRANSITION FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-3.91	0.0	-0.6981	-0.2982	-0.0142	-0.0245	-0.0101	0.3636	0.1310	0.2326	0.4271
2	-2.22	0.0	-0.3962	-0.1723	-0.0165	-0.0142	-0.0052	0.3561	0.1255	0.2306	0.4349
3	-1.13	0.01	-0.2020	-0.0967	-0.0164	0.0011	-0.0043	0.3537	0.1235	0.2302	0.4787
4	-0.01	0.01	0.0053	-0.0039	-0.0446	0.0012	-0.0036	0.3526	0.1235	0.2291	-0.7396
5	1.07	0.01	0.2151	0.0965	-0.0240	0.0019	-0.0025	0.3531	0.1233	0.2298	0.4391
6	2.16	0.01	0.3944	0.1924	-0.0437	-0.0005	-0.0051	0.3567	0.1248	0.2299	0.4879
7	4.33	0.01	0.8069	0.3250	-0.0412	0.0050	-0.0034	0.3626	0.1332	0.2294	0.4018
8	6.50	0.02	1.2254	0.4772	-0.0532	0.0037	-0.0016	0.3714	0.1388	0.2326	0.3895
9	8.72	0.02	1.6540	0.6598	-0.0534	0.0004	0.0001	0.3847	0.1530	0.2357	0.3540
10	10.88	0.01	2.1515	0.8211	-0.0371	-0.0112	0.0018	0.4121	0.1700	0.2421	0.2886
11	13.08	0.02	2.7059	0.9630	-0.0581	-0.0031	0.0001	0.4722	0.1770	0.2452	0.1709
12	15.30	0.02	3.3665	0.1701	-0.0653	-0.0033	0.0021	0.4253	0.1798	0.2455	0.0505
13	17.57	0.02	4.0246	-0.0317	-0.0631	-0.0063	0.0040	0.4334	0.1798	0.2536	-0.0079
14	19.86	0.03	4.6572	-0.1484	-0.0651	-0.0228	0.0093	0.4445	0.1812	0.2633	-0.0319
15	22.04	0.02	5.3034	-0.3725	-0.0595	-0.0020	0.0076	0.4462	0.1769	0.2693	-0.0703
16	24.39	0.03	6.0421	-0.7295	-0.0839	0.0249	0.0094	0.4534	0.1727	0.2807	-0.1208
17	-0.02	0.01	0.0193	-0.0044	-0.0459	-0.0064	-0.0033	0.3520	0.1233	0.2287	-0.2689

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RALU-B	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
3	#4	2.30	3.9	45.0	B1W1F0	15.420	OFF	OFF	OFF	OFF	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-3.43	0.01	-0.7259	-0.2540	-0.0260	-0.0341	-0.0069	0.3613	0.1291	0.2322	0.3499
2	-2.24	0.02	-0.6172	-0.1696	-0.0287	-0.0494	-0.0005	0.3545	0.1235	0.2310	0.4066
3	-1.14	0.01	-0.2232	-0.0400	-0.0305	-0.0407	0.0014	0.3528	0.1221	0.2307	0.4088
4	0.0	0.02	0.0004	-0.0031	-0.0407	-0.0237	0.0	0.3514	0.1222	0.2292	-10.0667
5	1.08	0.02	0.2652	0.0836	-0.0433	-0.0268	0.0009	0.3511	0.1208	0.2303	0.3108
6	2.13	0.02	0.5417	0.1547	-0.0452	-0.0187	0.0052	0.3518	0.1235	0.2283	0.3958
7	4.34	0.02	0.7949	0.3501	-0.0422	-0.0096	0.0035	0.3542	0.1292	0.2300	0.4405
8	6.50	0.02	1.2397	0.5507	-0.0459	-0.0362	0.0053	0.3690	0.1377	0.2313	0.4553
9	8.70	0.02	1.5094	0.7761	-0.0437	-0.0100	0.0071	0.3794	0.1447	0.2347	0.4959
10	10.88	0.02	2.0127	1.0604	-0.0605	0.0291	0.0049	0.3935	0.1545	0.2390	0.5271
11	13.06	0.04	2.4950	1.2299	-0.0767	-0.0363	0.0109	0.4078	0.1645	0.2433	0.4929
12	15.26	0.04	2.9751	1.4147	-0.0984	0.0229	0.0128	0.4159	0.1729	0.2430	0.4755
13	17.53	0.04	3.5213	1.6935	-0.1050	0.0108	0.0113	0.4285	0.1814	0.2471	0.4241
14	19.83	0.05	4.1164	1.8054	-0.1346	-0.0045	0.0119	0.4298	0.1814	0.2484	0.3901
15	21.97	0.05	4.7285	1.8814	-0.1151	0.0060	0.0046	0.4358	0.1757	0.2601	0.3403
16	24.29	0.05	5.3976	1.9666	-0.1356	0.0485	0.0123	0.4450	0.1757	0.2693	0.2717
17	0.0	0.02	0.0033	0.0239	-0.0406	-0.0328	0.0035	0.3528	0.1234	0.2294	7.2364

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RN/D=E-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
3	85	2.60	3.0	45.0	B1=1F0	15.420	OFF	OFF	OFF	OFF	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-3.77	0.01	-0.6541	-0.2784	-0.0200	-0.0349	0.0006	0.3248	0.1072	0.2176	0.4231
2	-2.22	0.0	-0.4004	-0.1635	-0.0103	-0.0171	0.0036	0.3217	0.1056	0.2161	0.4004
3	-1.12	0.01	-0.2073	-0.0837	-0.0148	-0.0241	0.0047	0.3223	0.1040	0.2183	0.4037
4	-0.02	0.01	-0.0077	-0.0156	-0.0270	-0.0142	0.0038	0.3229	0.1056	0.2173	2.0545
5	1.04	0.01	0.1564	0.0674	-0.0263	-0.0203	0.0046	0.3233	0.1056	0.2177	0.5627
6	2.10	0.01	0.3391	0.1570	-0.0270	-0.0135	0.0054	0.3251	0.1072	0.2179	0.4629
7	4.26	0.01	0.6878	0.3482	-0.0265	-0.0101	0.0070	0.3298	0.1072	0.2226	0.5062
8	6.38	0.02	1.0394	0.5794	-0.0466	-0.0060	0.0086	0.3346	0.1120	0.2246	0.5489
9	8.54	0.02	1.4166	0.7939	-0.0378	-0.0134	0.0064	0.3469	0.1168	0.2301	0.5598
10	10.66	0.02	1.7980	1.0017	-0.0502	0.0073	0.0080	0.3586	0.1231	0.2355	0.5577
11	12.83	0.02	2.2285	1.1589	-0.0541	0.0087	0.0098	0.3690	0.1295	0.2395	0.5200
12	15.02	0.03	2.7048	1.2283	-0.0793	0.0136	0.0116	0.3797	0.1327	0.2470	0.4541
13	17.20	0.03	3.2126	1.3065	-0.0777	0.0223	0.0136	0.3863	0.1359	0.2504	0.4067
14	19.46	0.03	3.7701	1.3052	-0.0871	0.0220	0.0141	0.3959	0.1327	0.2632	0.3462
15	21.61	0.03	4.3342	1.2431	-0.0874	0.0304	0.0140	0.4079	0.1327	0.2752	0.2868
16	23.85	0.04	4.9098	1.1472	-0.1097	0.0339	0.0100	0.4208	0.1327	0.2881	0.2308
17	-0.03	0.01	-0.0104	0.0100	-0.0173	-0.0180	0.0078	0.3255	0.1119	0.2136	-0.5739

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST 3 PART 86 MACH 2.60 3.0 PHI 0.0 CONF 81=1F0 L 15.420 DEL1 OFF DEL2 OFF DEL3 OFF DEL4 OFF TRANSITION FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-3.92	0.01	-0.4440	-0.2951	-0.0436	0.0243	-0.0029	0.3274	0.1117	0.2157	0.4568
2	-2.31	0.01	-0.2767	-0.1553	-0.0414	0.0118	0.0023	0.3253	0.1085	0.2168	0.4051
3	-1.28	0.01	-0.1724	-0.0491	-0.0437	0.0141	0.0031	0.3244	0.1085	0.2159	0.4207
4	0.90	0.01	0.1654	0.0893	-0.0509	0.0115	0.0008	0.3266	0.1070	0.2196	0.5401
5	-0.16	0.01	-0.0215	0.0016	-0.0473	0.0075	0.0039	0.3248	0.1086	0.2162	-0.0759
6	1.91	0.01	0.3250	0.1862	-0.0531	0.0134	0.0016	0.3276	0.1085	0.2191	0.5729
7	4.11	0.02	0.6834	0.3430	-0.0588	0.0193	0.0031	0.3306	0.1085	0.2221	0.5005
8	6.24	0.02	1.0481	0.4797	-0.0636	0.0136	0.0047	0.3387	0.1117	0.2270	0.4576
9	8.34	0.02	1.4534	0.5220	-0.0665	0.0151	0.0062	0.3540	0.1161	0.2359	0.3596
10	10.53	0.02	1.9298	0.4622	-0.0856	0.0267	0.0079	0.3711	0.1325	0.2386	0.2395
11	12.69	0.02	2.4493	0.2780	-0.0844	0.0268	0.0057	0.3732	0.1341	0.2391	0.1127
12	14.86	0.02	2.9454	0.0841	-0.0697	0.0176	0.0113	0.3813	0.1341	0.2472	0.0281
13	17.06	0.02	3.5450	-0.0471	-0.0744	0.0019	0.0091	0.3915	0.1341	0.2574	-0.0133
14	19.28	0.03	4.1406	-0.2234	-0.0953	0.0482	0.0110	0.3993	0.1309	0.2684	-0.0540
15	23.73	0.04	5.3626	-0.7052	-0.1200	0.0675	0.0145	0.4268	0.1277	0.2991	-0.1318
16	21.48	0.03	4.7297	-0.4623	-0.1031	0.0607	0.0126	0.4101	0.1261	0.2840	-0.0977
17	21.46	0.04	4.7325	-0.4543	-0.1167	0.0529	0.0166	0.4103	0.1261	0.2842	-0.0960
18	-0.18	0.01	-0.0082	0.0110	-0.0489	0.0094	0.0048	0.3246	0.1117	0.2129	-1.3398

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
3	M9	3.95	3.0	45.0	B1W1F0	15.420	OFF	OFF	OFF	OFF	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-3.52	0.0	-0.4594	-0.2848	0.0010	-0.0276	0.0032	0.2543	0.0678	0.1885	0.6194
2	-1.98	0.0	-0.2532	-0.1733	-0.0058	-0.0132	0.0064	0.2490	0.0678	0.1812	0.6845
3	-1.05	0.0	-0.1152	-0.0948	-0.0101	-0.0101	0.0064	0.2494	0.0678	0.1816	0.8561
4	0.09	0.0	0.0218	-0.0327	-0.0147	0.0036	0.0106	0.2480	0.0678	0.1802	-1.5009
5	1.16	0.0	0.1695	0.0315	-0.0091	-0.0086	0.0113	0.2504	0.0656	0.1848	0.1854
6	2.13	0.0	0.2737	0.1361	-0.0151	-0.0040	0.0096	0.2516	0.0656	0.1860	0.4908
7	4.25	0.0	0.5721	0.2951	-0.0055	-0.0116	0.0132	0.2599	0.0678	0.1921	0.5157
8	6.33	0.01	0.8696	0.4482	-0.0225	0.0069	0.0093	0.2690	0.0678	0.2012	0.5153
9	8.44	0.01	1.1695	0.5920	-0.0410	0.0251	0.0106	0.2795	0.0678	0.2117	0.4977
10	10.54	0.01	1.4674	0.7172	-0.0328	0.0071	0.0121	0.2916	0.0720	0.2196	0.4665
11	12.62	0.01	1.7661	0.8361	-0.0267	-0.0198	0.0138	0.3059	0.0742	0.2317	0.3992
12	14.75	0.01	2.0652	0.9216	-0.0370	-0.0014	0.0154	0.3193	0.0742	0.2451	0.3473
13	16.84	0.01	2.3659	0.9181	-0.0491	0.0070	0.0119	0.3356	0.0742	0.2614	0.2875
14	19.04	0.02	3.3674	0.8242	-0.0832	0.0165	0.0126	0.3521	0.0742	0.2779	0.2478
15	21.14	0.01	3.6693	0.9103	-0.0510	0.0092	0.0119	0.3721	0.0763	0.2958	0.2353
16	23.39	0.02	4.0740	0.9286	-0.0697	0.0172	0.0112	0.3943	0.0763	0.3180	0.2075
17	0.10	0.0	0.0218	-0.0327	-0.0147	0.0036	0.0106	0.2445	0.0678	0.1767	-1.5009

LANGLEY RESEARCH CENTER (NASA) UNITARY PLAN WIND TUNNEL (UPWT)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST 3 PART 90 MACH 3.95 RALU=6 3.0 PHI 0.0 CONF B1=1F0 L 15.420 DEL1 OFF DEL2 OFF DEL3 OFF DEL4 OFF TRANSITION FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-3.75	0.0	-0.4501	-0.2656	-0.0156	0.0213	0.0032	0.2484	0.0678	0.1806	0.5904
2	-2.14	0.0	-0.2444	-0.1516	-0.0171	0.0223	0.0042	0.2460	0.0678	0.1782	0.6205
3	-1.15	0.0	-0.1134	-0.0835	-0.0102	0.0191	0.0046	0.2444	0.0678	0.1766	0.7367
4	-0.10	0.0	0.0306	-0.0281	-0.0247	0.0312	0.0032	0.2467	0.0678	0.1769	-0.7689
5	0.95	0.0	0.1766	0.0495	-0.0195	0.0101	0.0008	0.2469	0.0678	0.1791	0.2769
6	1.95	0.0	0.3012	0.1286	-0.0124	0.0007	0.0014	0.2504	0.0678	0.1826	0.4270
7	4.07	0.0	0.5832	0.2747	-0.0220	0.0116	0.0027	0.2580	0.0678	0.1902	0.4711
8	6.14	0.0	0.8852	0.3585	-0.0295	0.0149	0.0039	0.2647	0.0678	0.1969	0.4050
9	8.23	0.0	1.2256	0.3664	-0.0353	0.0206	0.0	0.2782	0.0699	0.2083	0.2977
10	10.30	0.01	1.6245	0.2833	-0.0417	0.0200	0.0015	0.2903	0.0720	0.2183	0.1744
11	12.34	0.01	2.0197	0.2434	-0.0494	0.0427	0.0029	0.3019	0.0720	0.2299	0.1205
12	14.54	0.01	2.4732	0.1666	-0.0603	0.0418	0.0045	0.3163	0.0720	0.2443	0.0674
13	16.66	0.01	2.9003	0.0669	-0.0710	0.0544	0.0061	0.3325	0.0720	0.2605	0.0227
14	18.82	0.01	3.4472	-0.0240	-0.0833	0.0300	0.0026	0.3483	0.0720	0.2763	-0.0084
15	20.88	0.01	3.9414	-0.1556	-0.0954	0.0451	0.0043	0.3685	0.0720	0.2965	-0.0393
16	23.10	0.01	4.5678	-0.3533	-0.0708	0.0377	0.0061	0.3896	0.0699	0.3197	-0.0773
17	-0.10	0.0	0.0371	-0.0109	-0.0041	-0.0086	-0.0051	0.2429	0.0699	0.1730	-0.4566

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)
MARTIN MISSILE TAIL EFFECTS DATA

TEST 3 PART 91 MACH 4.63 RX10-6 3.0 PHI 0.0 CONF Missile L 15.420 DEL1 OFF DEL2 OFF DEL3 OFF DEL4 OFF TRANSITION FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	ACP
1	-3.36	0.0	-0.3648	-0.2515	-0.0095	0.0129	-0.0018	0.2227	0.0499	0.1728	0.6894
2	-1.53	0.0	-0.1717	-0.1532	-0.0025	0.0040	-0.0076	0.2192	0.0499	0.1693	0.8924
3	-0.54	0.0	-0.0500	-0.0827	-0.0168	0.0210	-0.0003	0.2198	0.0499	0.1699	1.6540
4	0.26	0.0	0.0463	-0.0116	-0.0063	0.0057	-0.0064	0.2207	0.0499	0.1703	-0.1232
5	1.28	0.0	0.2291	0.0730	-0.0196	0.0244	-0.0057	0.2240	0.0499	0.1741	0.3199
6	2.27	0.0	0.3382	0.1580	-0.0061	0.0068	-0.0052	0.2273	0.0499	0.1771	0.4672
7	4.36	0.0	0.6056	0.3124	-0.0062	0.0067	-0.0040	0.2314	0.0499	0.1815	0.5158
8	6.42	0.0	0.8341	0.3563	-0.0071	0.0064	-0.0095	0.2439	0.0499	0.1940	0.3962
9	8.50	0.0	1.1965	0.3926	-0.0046	-0.0131	-0.0063	0.2516	0.0526	0.1990	0.3288
10	10.55	0.0	1.5636	0.3213	-0.0273	0.0184	-0.0049	0.2646	0.0526	0.2120	0.2055
11	12.60	0.0	1.9060	0.2805	-0.0275	-0.0023	-0.0057	0.2773	0.0526	0.2247	0.1478
12	14.71	0.01	2.3224	0.1988	-0.0584	0.0326	-0.0041	0.2896	0.0526	0.2368	0.0855
13	16.81	0.01	2.7365	0.1021	-0.0547	0.0321	-0.0094	0.3079	0.0526	0.2553	0.0373
14	18.92	0.01	3.2143	-0.0046	-0.0560	0.0323	-0.0078	0.3241	0.0526	0.2715	-0.0263
15	20.95	0.01	3.7132	-0.2784	-0.0557	0.0332	-0.0062	0.3460	0.0526	0.2934	-0.0751
16	23.17	0.01	4.2967	-0.5642	-0.0587	0.0370	-0.0043	0.3664	0.0526	0.3138	-0.1313
17	0.26	0.0	0.1179	-0.0272	-0.0051	0.0068	-0.0063	0.2218	0.0526	0.1692	-0.2384

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST 3 PART 92 MACH 4.63 FAIR=6 3.0 PHI 45.0 CONF B1B1F0 L 15.420 DEL1 OFF DEL2 OFF DEL3 OFF DEL4 OFF TRANSITION FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-3.12	-0.01	-0.4256	-0.2133	0.0241	-0.0318	-0.0086	0.2274	0.0499	0.1779	0.5011
2	-1.58	0.0	-0.2069	-0.1176	0.0217	-0.0452	-0.0048	0.2236	0.0499	0.1737	0.5741
3	-0.58	-0.01	-0.0620	-0.0234	0.0360	-0.0473	-0.0023	0.2218	0.0499	0.1719	0.2587
4	0.50	0.0	0.0419	0.0449	0.0335	-0.0515	0.0003	0.2222	0.0499	0.1723	1.0726
5	1.53	0.0	0.1903	0.1095	0.0072	-0.0162	-0.0058	0.2247	0.0499	0.1748	0.5753
6	2.54	0.0	0.2975	0.1910	0.0169	-0.0161	0.0014	0.2275	0.0499	0.1776	0.6420
7	4.61	0.0	0.5731	0.3488	0.0193	-0.0143	-0.0040	0.2336	0.0499	0.1837	0.6051
8	6.67	0.0	0.8309	0.5259	0.0335	0.0027	-0.0028	0.2423	0.0499	0.1924	0.6330
9	8.77	0.0	1.1403	0.6808	0.0650	-0.0107	-0.0082	0.2525	0.0526	0.1999	0.5671
10	10.91	0.0	1.4866	0.8445	0.0191	-0.0445	-0.0001	0.2664	0.0526	0.2138	0.4618
11	12.57	0.0	1.8554	0.9880	-0.0188	-0.0877	-0.0054	0.2794	0.0553	0.2241	0.3665
12	14.97	0.0	2.2471	0.6950	-0.0015	-0.0444	-0.0038	0.2942	0.0553	0.2389	0.3093
13	17.06	0.0	2.6585	0.7056	-0.0071	-0.0345	-0.0022	0.3090	0.0553	0.2537	0.2655
14	19.19	0.0	3.1477	0.8557	-0.0026	-0.0545	-0.0015	0.3277	0.0553	0.2724	0.2070
15	21.23	0.0	3.6331	0.8657	0.0059	-0.0440	-0.0031	0.3495	0.0553	0.2942	0.1832
16	23.40	0.01	4.1778	0.8437	-0.0266	-0.0260	-0.0114	0.3717	0.0553	0.3164	0.1541
17	0.49	0.0	0.0417	0.0557	0.0330	-0.0399	-0.0064	0.2244	0.0553	0.1691	1.3362

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST 3 | MACH 2.96 3.0 | RNI 0.0 | CONF 81+0F0 | L 0.0 | DEL1 OFF | DEL2 OFF | DEL3 OFF | DEL4 OFF | TRANSITION FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-3.41	0.01	-0.1995	-0.5306	-0.0135	-0.0262	0.0022	0.2955	0.1230	0.1725	2.6767
2	-2.13	0.01	-0.1215	-0.2805	-0.0199	-0.0211	0.0028	0.2879	0.1187	0.1692	2.3095
3	-1.11	0.0	-0.0692	-0.1316	-0.0042	-0.0316	0.0031	0.2860	0.1185	0.1675	1.9882
4	-0.01	0.01	-0.0004	0.0143	-0.0170	-0.0249	0.0035	0.2839	0.1186	0.1653	-1.6976
5	0.99	0.01	0.0372	0.1835	-0.0303	-0.0274	0.0004	0.2855	0.1187	0.1668	4.9333
6	2.02	0.01	0.1041	0.3334	-0.0157	-0.0279	0.0043	0.2870	0.1200	0.1670	3.2071
7	4.16	0.01	0.2296	0.6514	-0.0297	-0.0307	0.0051	0.2942	0.1258	0.1684	2.8369
8	6.19	0.01	0.3800	0.9904	-0.0261	-0.0254	0.0075	0.3077	0.1356	0.1721	2.3429
9	8.32	0.01	0.5875	1.0942	-0.0209	-0.0163	0.0045	0.3217	0.1469	0.1748	1.8625
10	10.44	0.01	0.9319	1.1352	-0.0184	-0.0360	0.0013	0.3358	0.1596	0.1762	1.2182
11	12.59	0.01	1.3469	1.1522	-0.0206	-0.0185	0.0029	0.3492	0.1709	0.1783	0.8542
12	14.80	0.02	1.8074	1.1057	-0.0466	-0.0049	0.0045	0.3544	0.1737	0.1807	0.6118
13	16.96	0.02	2.2617	1.0792	-0.0576	0.0103	0.0026	0.3627	0.1766	0.1861	0.4772
14	19.19	0.03	2.7529	1.0369	-0.0640	0.0036	0.0042	0.3680	0.1765	0.1915	0.3756
15	21.32	0.03	3.2350	0.9697	-0.0747	0.0079	0.0057	0.3669	0.1681	0.1987	0.2927
16	23.43	0.04	3.7713	0.8114	-0.0959	0.0176	0.0038	0.3805	0.1495	0.2110	0.2151
17	-0.01	0.01	-0.0041	0.0294	-0.0178	-0.0331	0.0001	0.2827	0.1187	0.1640	-3.6346

LANGLEY RESEARCH CENTER (NASA) UNITARY PLAN WIND TUNNEL (UPWT)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST 3 PART 94 MACH 2.66 MACH-6 3.0 PHI 0.0 CONF 81=OFF L 0.0 DEL1 OFF DEL2 OFF DEL3 OFF DEL4 OFF TRANSITION FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAH	CAF	XCP
1	-3.77	0.0	-0.2150	-0.5604	-0.0001	-0.0292	0.0025	0.2604	0.1032	0.1572	2.6065
2	-2.78	0.0	-0.1249	-0.4374	-0.0038	-0.0254	0.0031	0.2592	0.1000	0.1592	2.7057
3	-1.26	0.01	-0.0744	-0.1618	-0.0175	-0.0066	0.0035	0.2917	0.1001	0.1616	2.1753
4	-0.17	0.01	-0.0095	0.0344	-0.0161	-0.0215	0.0	0.2645	0.1032	0.1613	-0.4211
5	0.83	0.01	0.0411	0.1617	-0.0130	-0.0250	0.0004	0.2673	0.1033	0.1640	3.9333
6	1.86	0.01	0.1053	0.3195	-0.0110	-0.0292	0.0008	0.2650	0.1017	0.1633	3.0340
~~7~~	~~2.87~~	~~0.01~~	~~0.1744~~	~~0.4894~~	~~-0.0094~~	~~-0.0329~~	~~0.0010~~	~~0.2628~~	~~0.1017~~	~~0.1546~~	~~2.6601~~
8	3.96	0.01	0.2352	0.6134	-0.0077	-0.0254	0.0018	0.2677	0.1017	0.1660	2.6931
9	4.93	0.01	0.2955	0.6883	-0.0173	-0.0233	0.0025	0.2746	0.1049	0.1717	2.1413
10	6.15	0.01	0.3602	0.7481	-0.0211	-0.0367	0.0036	0.2885	0.1145	0.1740	1.4361
11	10.25	0.01	1.0104	0.9212	-0.0252	-0.0179	0.0009	0.3005	0.1257	0.1748	0.9118
12	12.36	0.01	1.3729	0.9492	-0.0206	-0.0122	0.0023	0.3087	0.1273	0.1814	0.6914
13	14.56	0.02	1.7417	0.9881	-0.0461	-0.0028	0.0038	0.3162	0.1305	0.1857	0.4985
14	16.65	0.02	2.2015	0.8561	-0.0613	0.0194	0.0013	0.3242	0.1321	0.1921	0.3888
15	18.85	0.02	2.5335	0.7947	-0.0451	-0.0136	0.0027	0.3290	0.1289	0.2001	0.3018
16	20.94	0.03	3.0829	0.7239	-0.0780	0.0264	0.0042	0.3405	0.1272	0.2133	0.2364
17	23.17	0.03	3.5249	0.5788	-0.0757	0.0123	0.0056	0.3544	0.1257	0.2287	0.1640
18	-0.17	0.01	-0.0097	0.0133	-0.0166	-0.0209	0.0	0.2669	0.1064	0.1605	-1.3691

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)
MARTIN MISSILE TAIL EFFECTS DATA

TEST 3 PART 95 MACH 3.95 MAX10-6 3.0 PHI 0.0 CONF 61-0F0 L 0.0 DEL1 OFF DEL2 OFF DEL3 OFF DEL4 OFF TRANSITION FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAH	CAF	XCP
1	-1.66	0.0	-0.2040	-0.0277	-0.0056	-0.0194	0.0040	0.2063	0.0668	0.1395	2.0762
2	-2.21	0.0	-0.1143	-0.2425	-0.0224	0.0016	0.0046	0.2055	0.0689	0.1366	2.0334
3	-1.16	0.0	-0.0444	-0.1185	-0.0141	-0.0100	0.0050	0.2043	0.0668	0.1375	2.3791
4	-0.13	0.0	0.0009	0.0300	-0.0053	-0.0217	0.0053	0.2048	0.0668	0.1380	33.3778
5	0.91	0.0	0.0520	0.1781	-0.0176	-0.0067	0.0057	0.2071	0.0668	0.1403	3.4258
6	1.42	0.01	0.1223	0.2892	-0.0294	0.0078	0.0061	0.2085	0.0668	0.1417	2.3648
7	4.00	0.01	0.2618	0.5367	-0.0331	0.0112	0.0069	0.2117	0.0666	0.1444	2.0500
8	6.03	0.0	0.4549	0.6502	-0.0123	-0.0156	0.0078	0.2185	0.0689	0.1496	1.4177
9	8.12	0.01	0.7270	0.6988	-0.0273	-0.0264	0.0069	0.2266	0.0710	0.1556	0.8894
10	10.16	0.01	1.0101	0.6719	-0.0208	0.0036	0.0047	0.2336	0.0753	0.1583	0.6651
11	12.25	0.01	1.3140	0.7044	-0.0213	-0.0075	0.0059	0.2446	0.0753	0.1693	0.5365
12	14.33	0.01	1.6363	0.7226	-0.0342	0.0032	0.0071	0.2552	0.0753	0.1799	0.4416
13	16.44	0.01	1.9764	0.7403	-0.0467	0.0158	0.0084	0.2682	0.0753	0.1929	0.3745
14	18.50	0.02	2.3522	0.7020	-0.0609	0.0131	0.0098	0.2827	0.0753	0.2074	0.2985
15	20.52	0.02	2.7356	0.6429	-0.0665	0.0196	0.0059	0.3013	0.0753	0.2260	0.2349
16	22.83	0.02	3.2116	0.5262	-0.0762	0.0450	0.0074	0.3229	0.0732	0.2497	0.1638
17	-0.12	0.01	0.0013	0.0295	-0.0284	0.0052	0.0054	0.2029	0.0710	0.1319	22.6769

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)
MARTIN MISSILE TAIL EFFECTS DATA

PAGE 1 OF 1
SHEET 1 OF 1

TEST	PART	MACH	RNG-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
3	96	4.63	3.0	0.0	B1+0F0	0.0	OFF	OFF	OFF	OFF	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CYN	CLL	CA	CAB	CAF	XCP
1	-3.32	.0.0	-0.1950	-0.3804	-0.0170	-0.0127	0.0055	0.1845	0.0513	0.1332	1.9528
2	-1.43	0.01	-0.1065	-0.1916	-0.0344	0.0088	0.0051	0.1838	0.0513	0.1323	1.8009
3	-0.33	0.0	-0.0432	-0.0851	-0.0199	-0.0103	0.0065	0.1834	0.0513	0.1321	1.6199
4	0.23	0.0	0.0256	0.0775	-0.0061	-0.0285	0.0069	0.1857	0.0513	0.1344	3.0258
5	1.26	0.0	0.0922	0.2037	-0.0164	-0.0134	0.0073	0.1870	0.0513	0.1357	2.2095
6	2.26	0.01	0.1540	0.3296	-0.0301	0.0011	0.0010	0.1890	0.0513	0.1377	2.0730
7	4.32	0.0	0.2165	0.5353	-0.0274	-0.0042	0.0018	0.1919	0.0513	0.1406	1.6913
8	6.36	0.01	0.2755	0.7132	-0.0480	0.0046	0.0028	0.1956	0.0513	0.1443	1.1669
9	8.43	0.01	0.3719	0.9426	-0.0327	-0.0093	0.0037	0.2024	0.0513	0.1511	0.8325
10	10.43	0.01	1.0101	0.7056	-0.0169	-0.0038	0.0047	0.2129	0.0540	0.1569	0.6942
11	12.50	0.01	1.2477	0.7315	-0.0087	-0.0309	0.0058	0.2197	0.0540	0.1657	0.5682
12	14.58	0.01	1.5846	0.8902	-0.0388	0.0068	0.0002	0.2284	0.0540	0.1744	0.4356
13	16.66	0.01	1.9050	0.8179	-0.0433	-0.0005	0.0001	0.2410	0.0540	0.1870	0.3244
14	18.74	0.01	2.2494	0.8697	-0.0448	-0.0035	0.0026	0.2548	0.0540	0.2058	0.2158
15	20.77	0.01	2.6217	0.3965	-0.0475	0.0247	0.0039	0.2769	0.0540	0.2249	0.1513
16	22.92	0.01	3.0430	0.2595	-0.0665	0.0227	0.0053	0.2967	0.0540	0.2427	0.0853
17	0.24	0.0	0.0254	0.0776	-0.0055	-0.0288	0.0002	0.1874	0.0540	0.1334	3.0567

APPENDIX D
TEST 4

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
4	2	2.36	3.0	0.0	B2B0F34	0.0	0	0	0	0	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-4.07	0.01	-0.9036	2.0454	-0.0250	0.0278	-0.0737	0.4771	0.1361	0.3410	-2.2637
2	-2.00	0.01	-0.4927	1.1670	-0.0292	0.0428	-0.0694	0.4696	0.1320	0.3376	-2.3686
3	-0.97	0.0	-0.2872	0.7112	-0.0184	0.0273	-0.0675	0.4678	0.1316	0.3362	-2.4763
4	0.05	0.0	-0.0818	0.2663	-0.0232	0.0376	-0.0674	0.4654	0.1305	0.3349	-3.2552
5	1.07	0.01	0.1077	-0.1707	-0.0279	0.0478	-0.0678	0.4649	0.1313	0.3336	-1.5858
6	2.12	0.0	0.3114	-0.6110	-0.0223	0.0425	-0.0684	0.4658	0.1325	0.3333	-1.9629
7	4.16	0.0	0.7183	-1.5022	-0.0270	0.0532	-0.0756	0.4687	0.1351	0.3336	-2.0914
8	6.23	0.0	1.1618	-2.4345	-0.0261	0.0675	-0.0739	0.4823	0.1455	0.3368	-2.0954
9	8.32	0.0	1.6438	-3.3859	-0.0205	0.0577	-0.0720	0.4925	0.1555	0.3370	-2.0598
10	10.45	0.0	2.2447	-4.4133	-0.0308	0.0734	-0.0741	0.4976	0.1608	0.3368	-1.9661
11	12.59	0.0	2.8811	-5.3806	-0.0159	0.0366	-0.0746	0.4960	0.1616	0.3344	-1.8676
12	14.74	0.0	3.5094	-6.2539	-0.0269	0.0543	-0.0745	0.4878	0.1616	0.3262	-1.7828
13	16.91	0.0	4.1920	-7.2393	-0.0069	0.0332	-0.0726	0.4854	0.1611	0.3243	-1.7269
14	19.06	0.0	4.8631	-8.1579	-0.0131	0.0103	-0.0689	0.4816	0.1593	0.3223	-1.6775
15	21.21	0.0	5.5509	-9.1065	0.0069	-0.0062	-0.0606	0.4784	0.1571	0.3213	-1.6405
16	0.06	0.01	-0.0946	0.2792	-0.0233	0.0281	-0.0717	0.4648	0.1310	0.3338	-2.9512

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
4	3	2.36	3.0	-90.0	B2W0F34	0.0	0	0	0	0	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-4.05	0.0	-0.8642	1.9662	0.0133	-0.0329	-0.0692	0.4765	0.1362	0.3403	-2.2751
2	-1.98	0.0	-0.4578	1.0755	0.0185	-0.0467	-0.0683	0.4696	0.1334	0.3362	-2.3493
3	-0.97	0.0	-0.2577	0.6244	0.0213	-0.0483	-0.0681	0.4677	0.1329	0.3348	-2.4230
4	0.06	0.0	-0.0576	0.1781	0.0242	-0.0500	-0.0677	0.4658	0.1319	0.3339	-3.0921
5	1.08	0.0	0.1303	-0.2412	0.0174	-0.0418	-0.0650	0.4670	0.1318	0.3352	-1.8512
6	2.11	0.0	0.3335	-0.6860	0.0227	-0.0461	-0.0667	0.4670	0.1325	0.3345	-2.0571
7	4.19	0.0	0.7340	-1.5737	0.0331	-0.0659	-0.0722	0.4724	0.1368	0.3356	-2.1430
8	6.24	-0.01	1.1808	-2.5182	0.0364	-0.0562	-0.0695	0.4880	0.1491	0.3389	-2.1326
9	8.31	-0.01	1.6581	-3.4653	0.0326	-0.0618	-0.0707	0.5006	0.1585	0.3421	-2.0899
10	10.44	0.0	2.2510	-4.6719	0.0119	-0.0400	-0.0737	0.5058	0.1635	0.3423	-1.9066
11	12.60	0.0	2.8914	-5.4626	0.0206	-0.0486	-0.0718	0.5047	0.1637	0.3410	-1.8892
12	14.74	0.0	3.5728	-6.3390	0.0299	-0.0697	-0.0706	0.4974	0.1637	0.3337	-1.7994
13	16.88	0.0	4.1799	-7.2694	0.0243	-0.0755	-0.0722	0.4971	0.1653	0.3318	-1.7430
14	19.05	0.0	4.8639	-8.2401	0.0310	-0.0719	-0.0734	0.4920	0.1625	0.3295	-1.6872
15	21.22	0.0	5.5818	-9.2127	0.0366	-0.1006	-0.0728	0.4903	0.1611	0.3292	-1.6505
16	0.05	0.0	-0.0730	0.2083	0.0120	-0.0265	-0.0696	0.4657	0.1320	0.3337	-2.0537
17	0.05	-0.01	-0.0730	0.2085	0.0250	-0.0509	-0.0675	0.4661	0.1314	0.3347	-2.8564

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
4	4	2.86	3.0	-90.0	#2 OF 34	0.0	0	0	0	0	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-4.22	-0.01	-0.7631	1.4355	0.0477	-0.0913	-0.0585	0.4249	0.1114	0.3135	-1.8812
2	-2.14	-0.01	-0.3997	0.7495	0.0448	-0.0868	-0.0542	0.4176	0.1090	0.3086	-1.8751
3	-1.13	-0.01	-0.2185	0.4154	0.0356	-0.0769	-0.0569	0.4161	0.1084	0.3077	-1.9013
4	-0.11	-0.01	-0.0485	0.0817	0.0422	-0.0829	-0.0547	0.4154	0.1084	0.3070	-1.6854
5	0.93	-0.01	0.1364	-0.2618	0.0358	-0.0757	-0.0574	0.4166	0.1085	0.3081	-1.9190
6	1.96	-0.01	0.3097	-0.5933	0.0454	-0.0849	-0.0552	0.4161	0.1089	0.3072	-1.9157
7	4.02	-0.01	0.6675	-1.2731	0.0631	-0.1144	-0.0557	0.4224	0.1113	0.3111	-1.9073
8	6.09	-0.01	1.0730	-2.0029	0.0573	-0.1074	-0.0541	0.4327	0.1172	0.3155	-1.8667
9	8.17	-0.01	1.5362	-2.7863	0.0432	-0.0922	-0.0549	0.4409	0.1238	0.3171	-1.8138
10	10.27	-0.01	2.0855	-3.6467	0.0413	-0.0898	-0.0535	0.4435	0.1242	0.3193	-1.7486
11	12.39	-0.01	2.6518	-4.4546	0.0436	-0.1049	-0.0560	0.4470	0.1238	0.3232	-1.6798
12	14.50	0.0	3.2213	-5.2420	0.0457	-0.1200	-0.0607	0.4501	0.1222	0.3279	-1.6273
13	16.61	0.0	3.8089	-6.0641	0.0470	-0.1344	-0.0632	0.4522	0.1200	0.3322	-1.5921
14	18.76	0.0	4.4365	-6.9649	0.0466	-0.1343	-0.0687	0.4560	0.1164	0.3396	-1.5699
15	20.85	0.0	5.0653	-7.8949	0.0452	-0.1583	-0.0722	0.4591	0.1150	0.3441	-1.5586
16	-0.10	0.0	-0.0424	0.0916	0.0266	-0.0795	-0.0521	0.4129	0.1085	0.3044	-2.1603

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
4	5	2.86	3.0	0.0	B2W0F34	0.0	0	0	0	0	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-4.24	0.0	-0.8060	1.5331	0.0032	-0.0154	-0.0599	0.4241	0.1121	0.3120	-1.9022
2	-2.16	0.0	-0.4224	0.8239	0.0035	-0.0152	-0.0577	0.4150	0.1084	0.3066	-1.9505
3	-1.13	0.0	-0.2302	0.4751	0.0037	-0.0098	-0.0577	0.4129	0.1073	0.3056	-2.0639
4	-0.10	0.0	-0.0082	0.1573	0.0038	-0.0152	-0.0578	0.4112	0.1073	0.3039	-2.3069
5	0.92	0.0	0.1217	-0.1865	0.0041	-0.0098	-0.0559	0.4128	0.1069	0.3059	-1.5322
6	1.96	0.0	0.2959	-0.5267	-0.0016	-0.0036	-0.0564	0.4126	0.1074	0.3052	-1.7801
7	4.01	0.0	0.6612	-1.1993	0.0045	-0.0041	-0.0575	0.4162	0.1093	0.3069	-1.8139
8	6.09	0.0	1.0667	-1.9289	-0.0010	0.0128	-0.0554	0.4250	0.1169	0.3081	-1.8083
9	8.17	0.0	1.5298	-2.7190	0.0047	-0.0036	-0.0581	0.4320	0.1227	0.3093	-1.7773
10	10.29	0.0	2.0839	-3.5906	0.0103	-0.0148	-0.0583	0.4360	0.1242	0.3118	-1.7238
11	12.41	0.0	2.6565	-4.3932	0.0099	-0.0094	-0.0560	0.4369	0.1241	0.3128	-1.6537
12	14.51	0.0	3.2144	-5.1672	0.0150	-0.0096	-0.0609	0.4398	0.1218	0.3180	-1.6075
13	16.65	0.0	3.8278	-6.0197	0.0201	-0.0208	-0.0611	0.4423	0.1189	0.3234	-1.5726
14	18.76	0.0	4.4255	-6.8813	0.0251	-0.0481	-0.0616	0.4455	0.1156	0.3299	-1.5549
15	20.86	0.0	5.0526	-7.8370	0.0304	-0.0646	-0.0619	0.4485	0.1145	0.3340	-1.5511
16	-0.09	0.0	-0.0526	0.1539	0.0098	-0.0160	-0.0553	0.4122	0.1070	0.3052	-2.9259

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
4	6	3.95	3.0	-90.0	B2W0F34	0.0	0	0	0	0	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-4.13	0.0	-0.6141	0.9213	0.0055	-0.0579	-0.0351	0.3356	0.0753	0.2603	-1.5002
2	-2.09	0.0	-0.3149	0.5030	0.0119	-0.0477	-0.0344	0.3319	0.0753	0.2566	-1.5973
3	-1.07	0.0	-0.1731	0.2982	0.0052	-0.0407	-0.0325	0.3337	0.0753	0.2584	-1.7228
4	-0.04	0.0	-0.0314	0.1006	-0.0019	-0.0334	-0.0368	0.3349	0.0753	0.2596	-3.2024
5	0.97	0.0	0.1150	-0.1015	0.0154	-0.0512	-0.0348	0.3350	0.0753	0.2597	-0.8826
6	2.08	0.0	0.2535	-0.2955	0.0128	-0.0486	-0.0360	0.3368	0.0753	0.2615	-1.1658
7	4.06	0.0	0.5617	-0.7089	0.0062	-0.0420	-0.0384	0.3403	0.0753	0.2650	-1.2620
8	6.12	0.0	0.9087	-1.1984	0.0285	-0.0649	-0.0413	0.3461	0.0753	0.2708	-1.3189
9	8.18	0.0	1.3180	-1.7670	0.0205	-0.0568	-0.0447	0.3566	0.0759	0.2807	-1.3487
10	10.25	0.0	1.7425	-2.3005	0.0125	-0.0660	-0.0475	0.3645	0.0767	0.2878	-1.3202
11	12.34	0.0	2.2004	-2.8802	0.0108	-0.0648	-0.0506	0.3754	0.0767	0.2987	-1.3089
12	14.41	0.0	2.6655	-3.5181	0.0276	-0.0992	-0.0575	0.3891	0.0761	0.3130	-1.3199
13	16.48	0.0	3.1765	-4.2601	0.0227	-0.0942	-0.0621	0.4030	0.0742	0.3288	-1.3411
14	18.56	0.0	3.7353	-5.1286	0.0345	-0.1226	-0.0647	0.4164	0.0725	0.3439	-1.3730
15	20.64	0.0	4.3678	-6.1714	0.0236	-0.1107	-0.0689	0.4343	0.0694	0.3649	-1.4129
16	-0.04	0.0	-0.0392	0.1015	0.0181	-0.0706	-0.0336	0.3346	0.0731	0.2615	-2.5885
17	-0.05	0.0	-0.0391	0.1014	0.0187	-0.0544	-0.0336	0.3349	0.0742	0.2607	-2.5924

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
4	7	3.95	3.0	0.0	B2W0F34	0.0	0	0	0	0	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-4.15	0.0	-0.6576	0.9720	-0.0010	0.0009	-0.0382	0.3353	0.0734	0.2619	-1.4781
2	-2.08	0.0	-0.3352	0.5403	-0.0011	0.0080	-0.0350	0.3309	0.0739	0.2570	-1.6119
3	-1.06	0.0	-0.1946	0.3289	-0.0012	0.0081	-0.0350	0.3315	0.0739	0.2576	-1.6908
4	-0.04	0.0	-0.0534	0.1335	-0.0013	0.0082	-0.0351	0.3344	0.0739	0.2605	-2.5087
5	0.97	0.0	0.0851	-0.0556	-0.0015	0.0083	-0.0357	0.3348	0.0739	0.2609	-0.6534
6	2.00	0.0	0.2438	-0.2653	-0.0018	0.0084	-0.0397	0.3352	0.0739	0.2613	-1.0888
7	4.04	0.0	0.5408	-0.6639	-0.0021	0.0085	-0.0410	0.3409	0.0739	0.2670	-1.2277
8	6.11	0.0	0.8921	-1.1390	-0.0023	0.0157	-0.0384	0.3441	0.0739	0.2702	-1.2767
9	8.17	0.0	1.3013	-1.7105	-0.0028	0.0159	-0.0418	0.3510	0.0745	0.2765	-1.3145
10	10.23	0.0	1.7114	-2.2321	0.0043	0.0081	-0.0484	0.3594	0.0763	0.2831	-1.3042
11	12.31	0.0	2.1801	-2.8307	0.0035	0.0085	-0.0517	0.3719	0.0763	0.2956	-1.2984
12	14.39	0.0	2.6480	-3.4622	0.0105	-0.0136	-0.0553	0.3847	0.0763	0.3084	-1.3875
13	16.48	0.0	3.1500	-4.1751	0.0100	-0.0206	-0.0555	0.3977	0.0753	0.3224	-1.3254
14	18.55	0.0	3.7213	-5.0734	0.0173	-0.0354	-0.0589	0.4097	0.0748	0.3349	-1.3634
15	20.64	0.0	4.3342	-6.0633	0.0094	-0.0271	-0.0590	0.4252	0.0732	0.3520	-1.4035
16	-0.05	0.0	-0.0734	0.1540	-0.0013	0.0010	-0.0352	0.3321	0.0734	0.2587	-2.8986

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
4	8	4.63	3.0	0.0	B2W0F34	0.0	0	0	0	0	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-3.79	0.0	-0.5766	0.6274	-0.0198	0.0124	-0.0326	0.3097	0.0584	0.2513	-1.0888
2	-1.73	0.0	-0.2857	0.3103	-0.0202	0.0123	-0.0286	0.3089	0.0584	0.2505	-1.0750
3	-0.70	0.0	-0.1570	0.1753	-0.0205	0.0123	-0.0286	0.3085	0.0584	0.2501	-1.1164
4	0.30	0.0	-0.0254	0.0402	-0.0208	0.0123	-0.0286	0.3086	0.0584	0.2502	-1.5033
5	1.32	0.0	0.1028	-0.0869	-0.0211	0.0124	-0.0295	0.3084	0.0602	0.2482	-0.8454
6	2.34	0.0	0.2566	-0.2403	-0.0215	0.0125	-0.0304	0.3112	0.0602	0.2510	-0.9363
7	4.38	0.0	0.5378	-0.5199	-0.0222	0.0126	-0.0321	0.3104	0.0602	0.2502	-0.9667
8	6.43	0.0	0.8634	-0.9356	-0.0129	0.0026	-0.0412	0.3142	0.0608	0.2534	-1.0837
9	8.46	0.0	1.2090	-1.3547	-0.0134	0.0026	-0.0413	0.3238	0.0608	0.2630	-1.1205
10	10.52	0.0	1.6049	-1.8468	-0.0141	-0.0063	-0.0415	0.3337	0.0608	0.2729	-1.1507
11	12.56	0.0	2.0256	-2.3657	-0.0149	-0.0152	-0.0458	0.3489	0.0608	0.2881	-1.1778
12	14.63	0.0	2.4682	-3.0331	-0.0152	-0.0150	-0.0460	0.3586	0.0608	0.2978	-1.2289
13	16.68	0.0	2.9546	-3.8281	-0.0054	-0.0343	-0.0483	0.3727	0.0602	0.3125	-1.2956
14	18.74	0.0	3.5116	-4.8005	-0.0054	-0.0339	-0.0505	0.3818	0.0596	0.3222	-1.3670
15	20.81	0.0	4.1160	-5.9077	-0.0051	-0.0428	-0.0467	0.3977	0.0582	0.3395	-1.4353
16	0.30	0.0	-0.0254	0.0402	-0.0208	0.0123	-0.0286	0.3086	0.0588	0.2498	-1.5833
17	0.29	0.0	-0.0258	0.0406	-0.0307	0.0226	-0.0286	0.3084	0.0588	0.2496	-1.5749

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
4	9	4.63	3.0	-90.0	82=OF 34	0.0	0	0	0	0	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-3.77	-0.01	-0.5278	0.5910	0.0725	-0.0955	-0.0306	0.3106	0.0620	0.2486	-1.1198
2	-1.73	-0.01	-0.2544	0.2802	0.0608	-0.0624	-0.0279	0.3093	0.0620	0.2473	-1.1013
3	-0.71	-0.01	-0.1227	0.1437	0.0802	-0.0827	-0.0283	0.3085	0.0620	0.2465	-1.1712
4	0.31	-0.01	0.0091	0.0163	0.0486	-0.0506	-0.0287	0.3108	0.0620	0.2488	1.7952
5	1.33	-0.01	0.1368	-0.1067	0.0735	-0.0766	-0.0290	0.3100	0.0620	0.2480	-0.7798
6	2.34	-0.01	0.2744	-0.2492	0.0723	-0.0758	-0.0295	0.3097	0.0620	0.2477	-0.9081
7	4.39	-0.01	0.5591	-0.5626	0.0947	-0.0996	-0.0349	0.3113	0.0620	0.2493	-1.0062
8	6.43	-0.01	0.8922	-0.9813	0.0778	-0.0876	-0.0371	0.3156	0.0620	0.2536	-1.0990
9	8.48	-0.01	1.2571	-1.4333	0.0755	-0.0808	-0.0435	0.3267	0.0626	0.2641	-1.1401
10	10.53	-0.01	1.6302	-1.8933	0.0732	-0.1005	-0.0458	0.3371	0.0626	0.2745	-1.1614
11	12.57	-0.01	2.0455	-2.4397	0.0788	-0.1066	-0.0488	0.3521	0.0626	0.2895	-1.1927
12	14.63	-0.01	2.4899	-3.0809	0.0820	-0.1313	-0.0528	0.3635	0.0626	0.3009	-1.2374
13	16.70	-0.01	3.0024	-3.9109	0.0824	-0.1310	-0.0545	0.3752	0.0612	0.3140	-1.3026
14	18.74	-0.01	3.5436	-4.8807	0.0808	-0.1280	-0.0578	0.3911	0.0599	0.3312	-1.3773
15	20.81	-0.01	4.1438	-5.9947	0.0763	-0.1217	-0.0582	0.4069	0.0591	0.3478	-1.4467
16	0.30	-0.01	-0.0010	0.0268	0.0735	-0.0977	-0.0327	0.3074	0.0599	0.2475	-24.8400

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
4	10	4.63	3.0	0.0	82WOF35	0.0	0	0	0	0	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-3.76	0.0	-0.5265	0.7050	0.0096	-0.0095	-0.0326	0.2859	0.0537	0.2322	-1.3390
2	-1.72	0.0	-0.2107	0.3165	0.0092	-0.0095	-0.0326	0.2816	0.0537	0.2279	-1.5023
3	-0.71	0.0	-0.0780	0.1589	0.0090	-0.0095	-0.0327	0.2808	0.0537	0.2271	-2.0374
4	0.31	0.0	0.0542	0.0017	0.0089	-0.0095	-0.0286	0.2801	0.0537	0.2264	0.0320
5	1.32	0.0	0.2011	-0.1918	0.0086	-0.0093	-0.0328	0.2807	0.0537	0.2270	-0.9540
6	2.35	0.0	0.3485	-0.3645	0.0084	-0.0093	-0.0328	0.2837	0.0537	0.2300	-1.0460
7	4.39	0.0	0.6420	-0.7301	-0.0020	0.0011	-0.0328	0.2876	0.0537	0.2339	-1.1372
8	6.43	0.0	0.9620	-1.1227	0.0075	-0.0091	-0.0330	0.2965	0.0537	0.2428	-1.1670
9	8.49	0.0	1.3068	-1.4998	0.0067	-0.0090	-0.0371	0.3044	0.0547	0.2497	-1.1488
10	10.53	0.0	1.6804	-1.9231	0.0058	-0.0270	-0.0375	0.3131	0.0561	0.2570	-1.1444
11	12.58	0.0	2.0777	-2.3648	0.0049	-0.0360	-0.0377	0.3258	0.0547	0.2711	-1.1382
12	14.64	0.0	2.4969	-2.9362	0.0042	-0.0449	-0.0420	0.3366	0.0549	0.2817	-1.1759
13	16.71	0.0	2.9916	-3.6343	0.0138	-0.0443	-0.0382	0.3487	0.0541	0.2946	-1.2148
14	18.75	0.0	3.5089	-4.4441	0.0135	-0.0732	-0.0385	0.3601	0.0535	0.3066	-1.2665
15	20.82	0.0	4.0740	-5.3888	0.0133	-0.0819	-0.0388	0.3779	0.0512	0.3267	-1.3227
16	0.30	0.0	0.0268	-0.0130	-0.0112	0.0023	-0.0368	0.2778	0.0535	0.2243	-0.4840
17	0.29	0.0	0.0268	-0.0130	-0.0112	0.0023	-0.0368	0.2779	0.0541	0.2238	-0.4840

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
4	11	2.60	3.0	0.0	B2=0F35	0.0	0	0	0	0	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-4.23	0.0	-0.8261	1.5535	-0.0026	-0.0203	-0.0552	0.3919	0.1064	0.2855	-1.8806
2	-2.16	0.0	-0.4395	0.8539	-0.0023	-0.0147	-0.0553	0.3851	0.1023	0.2828	-1.9428
3	-1.13	0.0	-0.2318	0.4767	-0.0021	-0.0092	-0.0553	0.3847	0.1019	0.2828	-2.0564
4	-0.11	0.0	-0.0392	0.1024	0.0039	-0.0152	-0.0555	0.3831	0.1018	0.2813	-2.6114
5	0.92	0.0	0.1470	-0.2656	0.0040	-0.0204	-0.0580	0.3833	0.1019	0.2814	-1.8067
6	1.96	0.0	0.3323	-0.6453	0.0044	-0.0150	-0.0556	0.3834	0.1014	0.2820	-1.9419
7	4.01	0.0	0.7204	-1.3593	0.0107	-0.0210	-0.0509	0.3873	0.1043	0.2830	-1.8869
8	6.08	0.0	1.1092	-2.0358	0.0109	-0.0264	-0.0462	0.3953	0.1109	0.2844	-1.8353
9	8.18	0.0	1.5455	-2.6980	0.0049	-0.0148	-0.0438	0.4026	0.1169	0.2857	-1.7457
10	10.28	0.0	2.0469	-3.3645	0.0044	-0.0148	-0.0416	0.4066	0.1202	0.2864	-1.6437
11	12.39	0.0	2.5913	-4.0301	0.0034	-0.0198	-0.0418	0.4049	0.1150	0.2899	-1.5553
12	14.54	0.0	3.1538	-4.6903	0.0083	-0.0312	-0.0396	0.4066	0.1137	0.2929	-1.4872
13	16.66	0.0	3.7131	-5.3881	0.0247	-0.0598	-0.0423	0.4115	0.1159	0.2956	-1.4511
14	18.78	0.0	4.3088	-6.1529	0.0297	-0.0765	-0.0403	0.4161	0.1147	0.3014	-1.4288
15	20.91	0.0	4.9235	-6.9966	0.0404	-0.1098	-0.0383	0.4206	0.1130	0.3076	-1.4211
16	-0.10	0.0	-0.0231	0.0984	0.0156	-0.0273	-0.0554	0.3824	0.1028	0.2796	-4.2608
17	-0.11	0.0	-0.0385	0.1141	0.0098	-0.0159	-0.0553	0.3822	0.1024	0.2798	-2.9647
18	-0.11	0.0	-0.0234	0.0987	0.0098	-0.0159	-0.0553	0.3822	0.1023	0.2799	-4.2195

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)

MARTIN MISSILE TAIL EFFECTS DATA

PAGE 1 OF 1
SHEET 1 OF 1

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
4	12	2.36	3.0	0.0	B2=0F35	0.0	0	0	0	0	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-4.06	0.0	-0.8941	2.0342	-0.0193	0.0315	-0.0608	0.4310	0.1275	0.3035	-2.2751
2	-2.00	0.0	-0.4677	1.1401	-0.0185	0.0364	-0.0587	0.4272	0.1248	0.3024	-2.4377
3	-0.97	0.0	-0.2614	0.6724	-0.0079	0.0164	-0.0611	0.4280	0.1249	0.3031	-2.5721
4	0.05	0.0	-0.0431	0.1933	-0.0075	0.0118	-0.0614	0.4305	0.1251	0.3054	-4.4855
5	1.08	0.0	0.1436	-0.2436	-0.0173	0.0274	-0.0592	0.4285	0.1245	0.3040	-1.6967
6	2.12	0.0	0.3571	-0.7078	-0.0221	0.0377	-0.0592	0.4280	0.1246	0.3034	-1.9820
7	4.18	0.0	0.7854	-1.6271	-0.0212	0.0425	-0.0551	0.4295	0.1274	0.3021	-2.0717
8	6.25	0.0	1.2139	-2.5002	-0.0102	0.0223	-0.0510	0.4415	0.1394	0.3021	-2.0596
9	8.34	0.0	1.6722	-3.3155	-0.0151	0.0230	-0.0469	0.4514	0.1485	0.3029	-1.9827
10	10.46	0.0	2.2008	-4.0903	-0.0206	0.0390	-0.0448	0.4574	0.1536	0.3038	-1.8586
11	12.59	0.01	2.7741	-4.7962	-0.0217	0.0193	-0.0452	0.4554	0.1507	0.3047	-1.7289
12	14.76	0.01	3.3924	-5.5398	-0.0177	0.0046	-0.0435	0.4478	0.1456	0.3022	-1.6330
13	16.92	0.01	4.0291	-6.3355	-0.0136	-0.0052	-0.0394	0.4482	0.1489	0.2993	-1.5724
14	19.08	0.01	4.6941	-7.1616	-0.0045	-0.0250	-0.0397	0.4509	0.1516	0.2993	-1.5257
15	21.25	0.01	5.3780	-8.0216	-0.0107	-0.0148	-0.0356	0.4502	0.1486	0.3016	-1.4916
16	0.05	0.01	-0.0579	0.1976	-0.0281	0.0428	-0.0613	0.4298	0.1249	0.3049	-3.4131
17	0.05	0.01	-0.0578	0.1973	-0.0281	0.0428	-0.0612	0.4306	0.1256	0.3050	-3.4137
18	0.05	0.01	-0.0578	0.1973	-0.0282	0.0381	-0.0613	0.4308	0.1256	0.3052	-3.4137

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
4	13	3.65	3.0	0.0	82W0F35	0.0	0	0	0	0	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-4.14	0.0	-0.6587	1.0568	0.0142	-0.0152	-0.0414	0.3100	0.0697	0.2403	-1.6044
2	-2.08	0.0	-0.3147	0.5696	0.0140	-0.0151	-0.0415	0.3049	0.0697	0.2352	-1.8099
3	-1.06	0.0	-0.1534	0.3201	0.0139	-0.0150	-0.0415	0.3028	0.0691	0.2337	-2.0869
4	-0.04	0.0	0.0076	0.0708	0.0139	-0.0150	-0.0416	0.3030	0.0691	0.2339	9.0754
5	0.97	0.01	0.1364	-0.1622	-0.0641	0.0660	-0.0413	0.3068	0.0697	0.2371	-1.1888
6	2.01	0.0	0.3130	-0.4102	0.0061	0.0004	-0.0416	0.3095	0.0697	0.2398	-1.3104
7	4.05	0.0	0.6394	-0.8963	0.0138	-0.0077	-0.0385	0.3162	0.0697	0.2465	-1.4017
8	6.11	0.0	0.9672	-1.3335	0.0136	-0.0077	-0.0354	0.3237	0.0697	0.2540	-1.3707
9	8.17	0.0	1.3561	-1.8162	0.0129	-0.0075	-0.0387	0.3309	0.0721	0.2588	-1.3393
10	10.25	0.0	1.7672	-2.2538	0.0120	-0.0073	-0.0388	0.3350	0.0729	0.2621	-1.2753
11	12.32	0.0	2.1985	-2.7227	0.0188	-0.0224	-0.0422	0.3427	0.0723	0.2704	-1.2385
12	14.41	0.0	2.6478	-3.2607	0.0256	-0.0445	-0.0426	0.3535	0.0711	0.2824	-1.2315
13	16.49	0.0	3.1547	-3.9301	0.0248	-0.0586	-0.0429	0.3658	0.0706	0.2952	-1.2458
14	18.57	0.0	3.6810	-4.6548	0.0318	-0.0879	-0.0433	0.3792	0.0690	0.3102	-1.2646
15	20.66	0.0	4.2845	-5.5090	0.0234	-0.0722	-0.0434	0.3933	0.0669	0.3264	-1.2858
16	-0.04	0.0	-0.0132	0.0755	0.0062	-0.0069	-0.0415	0.3032	0.0692	0.2340	-5.7218

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
4	14	3.95	3.0	0.0	B2W0F33	8.0	0	0	0	0	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-4.12	0.0	-0.5648	0.0299	0.0074	-0.0222	-0.0160	0.3473	0.0681	0.2792	-1.4590
2	-2.08	0.0	-0.2916	0.4443	0.0072	-0.0221	-0.0161	0.3451	0.0682	0.2769	-1.5235
3	-1.06	0.0	-0.1335	0.2316	0.0070	-0.0220	-0.0161	0.3454	0.0676	0.2778	-1.7351
4	-0.05	0.0	-0.0160	0.0439	0.0070	-0.0220	-0.0162	0.3484	0.0676	0.2808	-2.7462
5	0.97	0.0	0.1419	-0.1683	-0.0010	-0.0066	-0.0193	0.3508	0.0662	0.2846	-1.1859
6	2.00	0.0	0.2600	-0.3399	-0.0011	-0.0066	-0.0193	0.3531	0.0671	0.2860	-1.3073
7	4.05	0.0	0.5769	-0.7490	-0.0015	-0.0064	-0.0194	0.3555	0.0682	0.2873	-1.2903
8	6.11	0.0	0.9464	-1.2920	-0.0017	0.0009	-0.0226	0.3618	0.0677	0.2941	-1.3651
9	8.16	0.0	1.3522	-1.8693	-0.0021	0.0011	-0.0227	0.3733	0.0688	0.3045	-1.3024
10	10.24	0.0	1.7800	-2.4186	-0.0023	0.0009	-0.0261	0.3819	0.0696	0.3123	-1.3508
11	12.32	0.0	2.2458	-3.0573	0.0004	-0.0095	-0.0263	0.3967	0.0696	0.3271	-1.3614
12	14.38	0.0	2.7113	-3.7292	0.0108	-0.0205	-0.0329	0.4101	0.0696	0.3405	-1.3756
13	16.47	0.0	3.2489	-4.5309	0.0091	-0.0261	-0.0331	0.4263	0.0677	0.3586	-1.3946
14	18.55	0.0	3.8195	-5.5026	0.0062	-0.0300	-0.0301	0.4398	0.0467	0.3731	-1.4407
15	20.63	0.0	4.4475	-6.6003	-0.0044	-0.0146	-0.0303	0.4569	0.0657	0.3912	-1.4840
16	-0.05	0.0	-0.0364	0.0648	-0.0087	-0.0057	-0.0193	0.3455	0.0672	0.2783	-1.7790
17	-0.06	0.0	-0.0371	0.0488	-0.0086	-0.0057	-0.0193	0.3482	0.0671	0.2811	-1.3149

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
4	15	4.63	3.0	0.0	82W0F33	0.0	0	0	0	0	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-3.78	0.0	-0.5371	0.5435	-0.0195	-0.0062	-0.0205	0.3272	0.0535	0.2737	-1.0119
2	-1.72	0.0	-0.2571	0.2348	-0.0200	-0.0062	-0.0206	0.3264	0.0535	0.2729	-0.9132
3	-0.71	0.0	-0.1294	0.1038	-0.0203	-0.0062	-0.0206	0.3262	0.0535	0.2727	-0.8020
4	1.33	0.0	0.1259	-0.1582	-0.0208	-0.0062	-0.0207	0.3282	0.0535	0.2747	-1.2568
5	2.32	0.0	0.2535	-0.2891	-0.0211	-0.0062	-0.0207	0.3281	0.0535	0.2746	-1.1406
6	4.38	0.0	0.5591	-0.6241	-0.0217	-0.0060	-0.0208	0.3327	0.0535	0.2792	-1.1162
7	6.42	0.01	0.8823	-1.0366	-0.0221	-0.0059	-0.0209	0.3360	0.0535	0.2825	-1.1749
8	8.47	0.01	1.2513	-1.5134	-0.0328	0.0047	-0.0291	0.3462	0.0535	0.2927	-1.2094
9	10.52	0.01	1.6462	-2.0168	-0.0230	-0.0058	-0.0293	0.3596	0.0543	0.3053	-1.2252
10	12.56	0.01	2.0385	-2.5820	-0.0193	-0.0190	-0.0295	0.3752	0.0543	0.3209	-1.2664
11	14.64	0.01	2.5045	-3.2872	-0.0153	-0.0233	-0.0256	0.3877	0.0543	0.3334	-1.3128
12	16.67	0.01	3.0114	-4.1688	-0.0162	-0.0128	-0.0256	0.4030	0.0543	0.3487	-1.3043
13	18.73	0.01	3.5878	-5.2318	-0.0196	-0.0086	-0.0258	0.4160	0.0528	0.3632	-1.4582
14	20.80	0.01	4.2066	-6.4429	-0.0228	-0.0043	-0.0300	0.4332	0.0533	0.3799	-1.5316
15	0.29	0.01	-0.0277	-0.0006	-0.0305	-0.0050	-0.0207	0.3258	0.0529	0.2729	0.0214

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
4	16	2.36	3.0	0.0	B2W0F33	0.0	0	0	0	0	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-4.05	0.01	-0.8609	1.9334	-0.0290	0.0179	-0.0378	0.4931	0.1277	0.3654	-2.2458
2	-1.99	0.01	-0.4669	1.0616	-0.0179	-0.0022	-0.0360	0.4844	0.1231	0.3613	-2.2737
3	-0.97	0.01	-0.2644	0.6214	-0.0228	0.0081	-0.0383	0.4845	0.1226	0.3619	-2.3501
4	0.05	0.01	-0.0726	0.2001	-0.0274	0.0183	-0.0359	0.4824	0.1218	0.3606	-2.7488
5	1.08	0.01	0.1308	-0.2423	-0.0166	0.0077	-0.0340	0.4821	0.1203	0.3618	-1.8527
6	2.09	0.01	0.3217	-0.6610	-0.0216	0.0133	-0.0383	0.4820	0.1208	0.3612	-2.0546
7	4.16	0.01	0.7286	-1.5576	-0.0259	0.0283	-0.0404	0.4872	0.1240	0.3632	-2.1379
8	6.25	0.01	1.1715	-2.5111	-0.0356	0.0490	-0.0446	0.5022	0.1369	0.3653	-2.1435
9	8.31	0.0	1.6652	-3.5139	-0.0246	0.0481	-0.0446	0.5132	0.1478	0.3654	-2.1102
10	10.42	0.0	2.2649	-4.6033	-0.0341	0.0776	-0.0445	0.5178	0.1527	0.3651	-2.0324
11	12.55	0.0	2.9251	-5.6684	-0.0272	0.0561	-0.0470	0.5168	0.1543	0.3625	-1.9378
12	14.69	0.0	3.5854	-6.6993	-0.0253	0.0541	-0.0450	0.5091	0.1528	0.3563	-1.8685
13	16.85	0.01	4.3013	-7.8429	-0.0271	0.0463	-0.0453	0.5067	0.1498	0.3569	-1.8234
14	19.01	0.0	5.0224	-8.9513	-0.0090	0.0082	-0.0414	0.5061	0.1468	0.3593	-1.7823
15	21.16	0.0	5.7764	-10.1354	-0.0212	0.0542	-0.0305	0.5080	0.1463	0.3617	-1.7546
16	0.05	0.01	-0.0584	0.1967	-0.0121	-0.0024	-0.0382	0.4816	0.1219	0.3597	-3.3688

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
4	17	2.86	3.0	0.0	B2WDF33	0.0	0	0	0	0	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-4.20	0.0	-0.7254	1.3862	0.0038	-0.0377	-0.0362	0.4367	0.1027	0.3340	-1.9110
2	-2.15	0.0	-0.3618	0.6977	0.0043	-0.0372	-0.0315	0.4296	0.0996	0.3300	-1.9283
3	-1.12	0.0	-0.1675	0.3673	-0.0073	-0.0199	-0.0315	0.4295	0.0988	0.3307	-1.9589
4	-0.11	0.0	-0.0123	0.0359	-0.0012	-0.0261	-0.0316	0.4312	0.0996	0.3316	-2.9188
5	0.91	0.0	0.1478	-0.2797	0.0047	-0.0319	-0.0340	0.4305	0.0998	0.3307	-1.8925
6	1.95	0.0	0.3377	-0.6260	0.0049	-0.0319	-0.0341	0.4301	0.0993	0.3308	-1.8537
7	4.02	0.0	0.7015	-1.3148	-0.0006	-0.0148	-0.0340	0.4349	0.1008	0.3341	-1.8742
8	6.10	0.0	1.1079	-2.0574	-0.0005	-0.0145	-0.0390	0.4440	0.1079	0.3361	-1.8570
9	8.15	0.0	1.5570	-2.8422	-0.0003	-0.0090	-0.0391	0.4521	0.1131	0.3390	-1.8254
10	10.25	0.0	2.1223	-3.7818	0.0	-0.0090	-0.0392	0.4550	0.1143	0.3407	-1.7819
11	12.36	0.0	2.7067	-4.6532	0.0021	-0.0050	-0.0392	0.4579	0.1139	0.3440	-1.7191
12	14.49	0.0	3.2946	-5.5303	0.0100	-0.0198	-0.0395	0.4612	0.1110	0.3502	-1.6786
13	16.60	0.0	3.8898	-6.4039	0.0197	-0.0464	-0.0399	0.4628	0.1092	0.3536	-1.6463
14	18.75	0.0	4.5274	-7.3860	0.0171	-0.0330	-0.0399	0.4669	0.1081	0.3588	-1.6314
15	20.85	0.0	5.1946	-8.4759	0.0144	-0.0628	-0.0380	0.4730	0.1062	0.3668	-1.6317
16	-0.10	0.0	-0.0112	0.0475	0.0104	-0.0381	-0.0340	0.4310	0.1006	0.3304	-4.2454

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
4	18	2.36	3.0	0.0	B2W0F34	0.0	0	-20	0	-20	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-3.89	0.01	-2.8563	10.6325	-0.0018	-0.1103	-0.0411	1.3460	0.1456	1.2004	-3.7225
2	-1.82	0.01	-2.4544	9.7546	0.0093	-0.1158	-0.0392	1.2582	0.1478	1.1104	-3.9743
3	-0.77	0.01	-2.2467	9.3033	0.0147	-0.1255	-0.0437	1.2151	0.1488	1.0663	-4.1409
4	0.22	0.01	-2.0544	8.8569	0.0049	-0.1051	-0.0415	1.1725	0.1504	1.0221	-4.3112
5	1.25	0.01	-1.8387	8.3713	0.0105	-0.1197	-0.0418	1.1271	0.1515	0.9756	-4.5529
6	2.29	0.01	-1.6220	7.8791	0.0006	-0.0943	-0.0438	1.0790	0.1539	0.9251	-4.8576
7	4.35	0.01	-1.1893	6.9140	0.0065	-0.0990	-0.0483	0.9856	0.1568	0.8288	-5.8135
8	6.41	0.01	-0.7106	5.8586	0.0074	-0.0985	-0.0487	0.8936	0.1619	0.7317	-8.2446
9	8.49	0.01	-0.2040	4.8470	0.0029	-0.0832	-0.0466	0.7994	0.1616	0.6378	-23.7596
10	10.60	0.01	0.3979	3.8092	-0.0020	-0.0680	-0.0467	0.7111	0.1570	0.5541	9.5732
11	12.75	0.01	1.1044	2.6140	0.0085	-0.0687	-0.0448	0.6057	0.1472	0.4585	2.3669
12	14.91	0.0	1.8012	1.5106	0.0082	-0.0633	-0.0492	0.5198	0.1492	0.3706	0.8386
13	17.06	0.0	2.4457	0.6831	0.0074	-0.0535	-0.0471	0.4632	0.1497	0.3135	0.2793
14	19.23	0.0	3.0593	0.0266	0.0060	-0.0386	-0.0555	0.4193	0.1528	0.2665	0.0087
15	21.41	0.0	3.6869	-0.6124	0.0146	-0.0630	-0.0601	0.3763	0.1541	0.2222	-0.1661
16	0.21	0.01	-2.0642	8.8568	0.0048	-0.1095	-0.0458	1.1709	0.1487	1.0222	-4.2987
17	0.21	0.01	-2.0646	8.8566	-0.0055	-0.0989	-0.0457	1.1724	0.1492	1.0232	-4.2898

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
4	19	2.86	3.0	0.0	B2W0F34	0.9	0	-20	0	-20	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-4.11	0.01	-2.5628	9.1270	0.0039	-0.1338	-0.0524	1.1953	0.1087	1.0866	-3.5613
2	-2.05	0.01	-2.1666	8.2992	0.0046	-0.1281	-0.0501	1.1086	0.1095	0.9991	-3.8305
3	-1.01	0.01	-1.9610	7.8578	0.0049	-0.1278	-0.0527	1.0626	0.1107	0.9519	-4.0071
4	0.0	0.01	-1.7579	7.4119	0.0053	-0.1222	-0.0552	1.0178	0.1103	0.9075	-4.2163
5	1.02	0.01	-1.5537	6.9559	0.0057	-0.1219	-0.0528	0.9702	0.1111	0.8591	-4.4770
6	2.05	0.01	-1.3377	6.4995	0.0060	-0.1162	-0.0552	0.9247	0.1118	0.8129	-4.8587
7	4.10	0.01	-0.9337	5.6480	0.0009	-0.1045	-0.0529	0.8357	0.1141	0.7216	-6.0491
8	6.17	0.01	-0.4744	4.7247	-0.0042	-0.0874	-0.0482	0.7518	0.1163	0.6355	-9.9593
9	8.26	0.01	0.0569	3.6993	-0.0035	-0.0764	-0.0435	0.6591	0.1173	0.5418	65.0145
10	10.34	0.01	0.6502	2.6504	-0.0032	-0.0815	-0.0414	0.5775	0.1122	0.4653	4.0763
11	12.47	0.01	1.2222	1.8606	0.0020	-0.0817	-0.0439	0.5238	0.1083	0.4155	1.5223
12	14.63	0.01	1.7435	1.3293	0.0067	-0.0822	-0.0465	0.4904	0.1107	0.3797	0.7624
13	16.73	0.01	2.2300	0.9067	0.0109	-0.0984	-0.0539	0.4651	0.1106	0.3545	0.4066
14	18.88	0.01	2.7486	0.4811	0.0092	-0.0872	-0.0610	0.4413	0.1129	0.3284	0.1758
15	21.00	0.01	3.2818	-0.0091	0.0136	-0.0928	-0.0660	0.4187	0.1132	0.3055	-0.0028
16	0.01	0.01	-1.7696	7.4269	0.0054	-0.1168	-0.0526	1.0176	0.1111	0.9065	-4.1969

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RE10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
4	20	3.95	3.0	0.0	B2=0F34	0.0	0	-20	0	-20	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-4.09	0.0	-2.0078	7.0645	0.0314	-0.1212	-0.0477	0.9518	0.0688	0.8830	-3.5185
2	-2.04	0.0	-1.6326	6.3020	0.0321	-0.1139	-0.0446	0.8723	0.0680	0.8043	-3.8681
3	-1.02	0.0	-1.4549	5.9309	0.0324	-0.1137	-0.0447	0.8327	0.0685	0.7642	-4.0765
4	0.0	0.0	-1.2593	5.5086	0.0250	-0.0983	-0.0447	0.7912	0.0680	0.7232	-4.3743
5	1.02	0.0	-1.0658	5.1285	0.0253	-0.0910	-0.0447	0.7511	0.0681	0.6830	-4.8110
6	2.05	0.0	-0.8725	4.7486	0.0256	-0.0910	-0.0416	0.7108	0.0684	0.6424	-5.4425
7	4.09	0.0	-0.4867	3.9561	0.0262	-0.0835	-0.0416	0.6310	0.0685	0.5625	-8.1283
8	6.13	0.0	-0.0459	3.1196	0.0188	-0.0752	-0.0386	0.5561	0.0695	0.4866	-67.9659
9	8.20	0.0	0.3797	2.4982	0.0185	-0.0676	-0.0418	0.5109	0.0687	0.4422	6.5794
10	10.26	0.0	0.7535	2.1485	0.0254	-0.0757	-0.0420	0.4890	0.0653	0.4237	2.8513
11	12.35	0.0	1.1322	1.9285	0.0239	-0.0683	-0.0483	0.4822	0.0641	0.4181	1.7033
12	14.43	0.0	1.4912	1.7454	0.0224	-0.0681	-0.0484	0.4755	0.0636	0.4119	1.1784
13	16.54	0.0	1.8856	1.5310	0.0206	-0.0749	-0.0549	0.4757	0.0630	0.4127	0.8119
14	18.63	0.0	2.2777	1.3034	0.0191	-0.0748	-0.0550	0.4744	0.0653	0.4091	0.5722
15	20.74	0.0	2.7503	0.9934	0.0251	-0.0825	-0.0583	0.4729	0.0661	0.4068	0.3612
16	-0.01	0.0	-1.3001	5.5504	0.0094	-0.0821	-0.0446	0.7912	0.0694	0.7218	-4.2692
17	-0.02	0.0	-1.3195	5.5871	0.0094	-0.0821	-0.0446	0.7936	0.0689	0.7247	-4.2342

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
4	21	4.63	3.0	0.0	B2W0F34	0.0	0	-20	0	-20	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-3.75	0.01	-1.8331	6.1250	-0.0129	-0.0646	-0.0446	0.8465	0.0528	0.7937	-3.3413
2	-1.70	0.01	-1.4762	5.4269	-0.0123	-0.0553	-0.0406	0.7727	0.0534	0.7193	-3.6763
3	-0.68	0.01	-1.2724	5.0412	-0.0121	-0.0552	-0.0407	0.7330	0.0534	0.6796	-3.9820
4	0.31	0.01	-1.0939	4.7036	-0.0119	-0.0551	-0.0408	0.6969	0.0534	0.6435	-4.2998
5	1.32	0.01	-0.9202	4.3793	-0.0118	-0.0550	-0.0408	0.6595	0.0541	0.6054	-4.7591
6	2.34	0.01	-0.7473	4.0344	-0.0116	-0.0548	-0.0409	0.6222	0.0535	0.5687	-5.3986
7	4.38	0.01	-0.3491	3.3338	-0.0113	-0.0548	-0.0370	0.5474	0.0546	0.4928	-9.5496
8	6.41	0.01	0.0204	2.7222	-0.0114	-0.0544	-0.0412	0.4930	0.0547	0.4383	133.4404
9	8.46	0.01	0.3680	2.3657	-0.0122	-0.0543	-0.0413	0.4711	0.0541	0.4170	6.4285
10	10.53	0.01	0.6948	2.1594	-0.0133	-0.0543	-0.0413	0.4631	0.0516	0.4115	3.1080
11	12.60	0.01	0.9992	2.0621	-0.0148	-0.0542	-0.0414	0.4636	0.0478	0.4158	2.0638
12	14.66	0.01	1.3287	1.9177	-0.0164	-0.0631	-0.0456	0.4620	0.0447	0.4173	1.4433
13	16.70	0.01	1.6768	1.7166	-0.0078	-0.0733	-0.0458	0.4647	0.0466	0.4181	1.0238
14	18.76	0.01	2.0478	1.4947	-0.0092	-0.0639	-0.0498	0.4671	0.0503	0.4168	0.7299
15	0.30	0.01	-1.1194	4.7297	-0.0119	-0.0551	-0.0408	0.6941	0.0529	0.6412	-4.2252

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
4	22	2.36	3.0	0.0	B2W0F35	0.0	0	-20	0	-20	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-3.97	0.01	-2.6192	9.2953	0.0120	-0.1014	-0.0372	1.1887	0.1493	1.0394	-3.5489
2	-1.87	0.01	-2.2311	8.5578	0.0069	-0.0953	-0.0458	1.1093	0.1498	0.9595	-3.8357
3	-0.84	0.01	-2.0503	8.1890	0.0071	-0.0950	-0.0459	1.0720	0.1518	0.9202	-3.9941
4	0.16	0.01	-1.8587	7.7915	0.0074	-0.0900	-0.0459	1.0346	0.1532	0.8814	-4.1919
5	1.21	0.01	-1.6675	7.3719	0.0128	-0.1046	-0.0483	0.9921	0.1549	0.8372	-4.4209
6	2.23	0.01	-1.4626	6.9474	0.0079	-0.0942	-0.0504	0.9556	0.1573	0.7983	-4.7508
7	4.28	0.01	-1.0666	6.1266	0.0033	-0.0836	-0.0527	0.8782	0.1599	0.7183	-5.7448
8	6.39	0.01	-0.5965	5.2136	0.0090	-0.0839	-0.0529	0.7967	0.1606	0.6361	-8.7402
9	8.47	0.01	-0.1250	4.3693	0.0039	-0.0828	-0.0531	0.7161	0.1573	0.5588	-34.9544
10	10.60	0.01	0.4667	3.4417	0.0037	-0.0775	-0.0553	0.6392	0.1519	0.4873	7.3746
11	12.75	0.01	1.1371	2.4005	0.0186	-0.1071	-0.0643	0.5585	0.1459	0.4126	2.1111
12	14.89	0.01	1.8087	1.4167	0.0128	-0.1012	-0.0666	0.4916	0.1510	0.3406	0.7832
13	17.05	0.01	2.4562	0.5336	0.0122	-0.0914	-0.0688	0.4328	0.1510	0.2818	0.2171
14	19.22	0.01	3.0993	-0.1552	0.0209	-0.1205	-0.0692	0.3878	0.1531	0.2347	-0.0501
15	21.40	0.01	3.7178	-0.7628	0.0296	-0.1451	-0.0674	0.3483	0.1522	0.1961	-0.2052

PAGE 1 OF 1
SHEET 1 OF 1

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
4	23	2.66	3.0	0.0	B2W0F35	0.0	0	-20	0	-20	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-4.13	0.0	-2.2500	7.9216	0.0419	-0.1376	-0.0453	1.0625	0.1078	0.9547	-3.5207
2	-2.07	0.0	-1.8981	7.2643	0.0420	-0.1424	-0.0455	0.9872	0.1093	0.8779	-3.8272
3	-1.03	0.0	-1.6934	6.9022	0.0422	-0.1370	-0.0455	0.9466	0.1100	0.8366	-4.0760
4	-0.01	0.0	-1.5040	6.5299	0.0481	-0.1426	-0.0480	0.9080	0.1102	0.7978	-4.3417
5	1.02	0.0	-1.3153	6.1594	0.0483	-0.1424	-0.0505	0.8694	0.1119	0.7575	-4.6829
6	2.05	0.0	-1.1283	5.7970	0.0485	-0.1424	-0.0506	0.8318	0.1129	0.7189	-5.1378
7	4.11	0.0	-0.7367	5.0590	0.0432	-0.1309	-0.0483	0.7570	0.1145	0.6425	-6.8871
8	6.18	0.0	-0.3175	4.2696	0.0435	-0.1250	-0.0484	0.6839	0.1174	0.5665	-13.4476
9	8.27	0.0	0.1888	3.4109	0.0435	-0.1246	-0.0466	0.6082	0.1154	0.4928	18.0665
10	10.37	0.0	0.7563	2.5030	0.0492	-0.1358	-0.0489	0.5398	0.1093	0.4305	3.3096
11	12.49	0.0	1.3407	1.6544	0.0485	-0.1351	-0.0562	0.4796	0.1042	0.3754	1.2340
12	14.61	0.0	1.8449	1.1424	0.0531	-0.1408	-0.0612	0.4496	0.1052	0.3444	0.6192
13	16.74	0.0	2.3536	0.6898	0.0632	-0.1633	-0.0687	0.4241	0.1079	0.3162	0.2931
14	18.88	0.0	2.8762	0.2333	0.0731	-0.1910	-0.0738	0.3999	0.1094	0.2905	0.0811
15	21.02	0.0	3.4186	-0.2507	0.0833	-0.2193	-0.0743	0.3782	0.1101	0.2681	-0.0733
16	0.0	0.0	-1.5066	6.5420	0.0541	-0.1491	-0.0481	0.9079	0.1107	0.7972	-4.3422

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
4	24	3.95	3.0	0.0	B2W0F35	0.0	0	-20	0	-20	FIXED

POINT	ALPHA	BETA	CN	CLN	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-4.08	0.0	-1.8140	6.2483	0.0571	-0.1240	-0.0382	0.8584	0.0639	0.7945	-3.4448
2	-2.04	0.0	-1.4824	5.6724	0.0494	-0.1158	-0.0383	0.7948	0.0630	0.7318	-3.8265
3	-1.02	0.0	-1.3077	5.3417	0.0495	-0.1156	-0.0384	0.7612	0.0636	0.6976	-4.0868
4	-0.01	0.0	-1.1324	5.0273	0.0496	-0.1155	-0.0385	0.7249	0.0645	0.6604	-4.4395
5	1.01	0.0	-0.9576	4.6965	0.0498	-0.1154	-0.0385	0.6911	0.0646	0.6265	-4.9048
6	2.04	0.0	-0.7835	4.3496	0.0501	-0.1081	-0.0385	0.6547	0.0641	0.5906	-5.5515
7	4.09	0.0	-0.3921	3.6735	0.0502	-0.1006	-0.0385	0.5828	0.0651	0.5177	-9.3687
8	6.14	-0.01	0.0106	2.9243	0.0505	-0.1003	-0.0387	0.5128	0.0646	0.4482	275.0750
9	8.20	0.0	0.4352	2.2872	0.0502	-0.1000	-0.0420	0.4694	0.0637	0.4057	5.2558
10	10.27	0.0	0.8101	1.9423	0.0490	-0.1070	-0.0487	0.4474	0.0602	0.3872	2.3976
11	12.35	0.0	1.1887	1.7128	0.0475	-0.1067	-0.0551	0.4411	0.0583	0.3828	1.4409
12	14.44	0.0	1.5489	1.5354	0.0535	-0.1360	-0.0587	0.4389	0.0583	0.3806	0.9913
13	16.53	0.0	1.9498	1.3159	0.0595	-0.1583	-0.0622	0.4364	0.0583	0.3781	0.6749
14	18.61	0.0	2.3704	1.0591	0.0655	-0.1476	-0.0658	0.4364	0.0601	0.3763	0.4468
15	20.71	0.0	2.8110	0.7819	0.0714	-0.2098	-0.0693	0.4337	0.0607	0.3730	0.2781
16	-0.02	0.0	-1.1734	5.0524	0.0420	-0.1075	-0.0384	0.7253	0.0640	0.6613	-4.3058

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RN/0-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
4	25	4.63	3.0	0.0	82=0F35	0.0	0	-20	0	-20	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-3.76	0.0	-1.6220	5.4142	0.0286	-0.0967	-0.0367	0.7663	0.0466	0.7197	-3.3380
2	-1.71	0.0	-1.2961	4.8823	0.0188	-0.0772	-0.0325	0.7066	0.0466	0.6600	-3.7669
3	-0.71	0.0	-1.1482	4.6274	0.0189	-0.0772	-0.0326	0.6756	0.0466	0.6290	-4.0302
4	0.32	0.0	-0.9718	4.3353	0.0187	-0.0768	-0.0367	0.6425	0.0466	0.5959	-4.4611
5	1.33	0.0	-0.7990	4.0331	0.0190	-0.0770	-0.0328	0.6082	0.0466	0.5616	-5.0476
6	2.35	0.0	-0.6238	3.7461	0.0188	-0.0768	-0.0369	0.5725	0.0459	0.5266	-6.8852
7	4.39	0.0	-0.2507	3.0842	0.0190	-0.0766	-0.0370	0.5022	0.0459	0.4563	-12.3025
8	6.43	0.0	0.1187	2.4875	0.0189	-0.0855	-0.0373	0.4515	0.0453	0.4062	20.9550
9	8.48	0.0	0.4666	2.1337	0.0179	-0.0944	-0.0416	0.4292	0.0454	0.3838	4.5729
10	10.53	0.0	0.7680	1.9334	0.0265	-0.1136	-0.0500	0.4236	0.0441	0.3795	2.5174
11	12.59	0.0	1.0722	1.8234	0.0349	-0.1421	-0.0503	0.4247	0.0398	0.3849	1.7006
12	14.65	0.0	1.4264	1.6801	0.0331	-0.1509	-0.0545	0.4249	0.0373	0.3876	1.1779
13	16.71	0.0	1.7583	1.5235	0.0415	-0.1704	-0.0589	0.4264	0.0398	0.3866	0.8664
14	18.77	0.0	2.1391	1.2911	0.0499	-0.1896	-0.0632	0.4276	0.0434	0.3842	0.6036
15	20.84	0.0	2.5445	1.0123	0.0483	-0.1892	-0.0715	0.4320	0.0434	0.3886	0.3978
16	8.38	0.0	-1.0000	4.3465	0.0089	-0.0759	-0.0328	0.6438	0.0459	0.5979	-4.3465

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
4	26	2.80	3.0	0.0	B2W0F33	0.0	0	-20	0	-20	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-4.09	0.01	-2.5968	9.5170	0.0207	-0.1363	-0.0427	1.2399	0.1069	1.1330	-3.6649
2	-2.03	0.01	-2.1668	8.5349	0.0217	-0.1251	-0.0428	1.1365	0.1068	1.0297	-3.9389
3	-0.99	0.01	-1.9512	8.0191	0.0224	-0.1250	-0.0381	1.0869	0.1061	0.9808	-4.1099
4	0.01	0.01	-1.7512	7.5501	0.0170	-0.1133	-0.0405	1.0400	0.1063	0.9337	-4.3114
5	1.03	0.01	-1.5363	7.0527	0.0175	-0.1130	-0.0407	0.9895	0.1059	0.8836	-4.5987
6	2.07	0.01	-1.3204	6.5632	0.0122	-0.1014	-0.0383	0.9413	0.1068	0.8345	-4.9706
7	4.11	0.01	-0.9027	5.6546	0.0131	-0.0903	-0.0359	0.8511	0.1097	0.7414	-6.2841
8	6.18	0.0	-0.4542	4.7315	0.0196	-0.0906	-0.0361	0.7617	0.1120	0.6497	-10.4171
9	8.27	0.0	0.0830	3.6806	0.0202	-0.0902	-0.0363	0.6687	0.1116	0.5571	44.3443
10	10.35	0.0	0.6953	2.5900	0.0263	-0.0959	-0.0342	0.5898	0.1086	0.4812	3.7250
11	12.47	0.0	1.2665	1.8019	0.0141	-0.0727	-0.0386	0.5321	0.1042	0.4279	1.4228
12	14.60	0.0	1.7702	1.2710	0.0244	-0.0950	-0.0441	0.4998	0.1061	0.3937	0.7188
13	16.74	0.0	2.2897	0.8083	0.0347	-0.0961	-0.0489	0.4746	0.1057	0.3689	0.3530
14	18.87	0.0	2.8066	0.3578	0.0330	-0.1064	-0.0516	0.4509	0.1080	0.3429	0.1275
15	21.01	0.0	3.3523	-0.1596	0.0373	-0.1174	-0.0542	0.4279	0.1089	0.3190	-0.0476
16	0.02	0.0	-1.7328	7.5358	0.0227	-0.1136	-0.0428	1.0383	0.1064	0.9319	-4.3489

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)
MARTIN MISSILE TAIL EFFECTS DATA

PAGE 1 OF 1
SHEET 1 OF 1

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
4	27	2.36	2.0	-90.0	W2WOF33	0.0	20	0	20	0	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-3.92	-0.01	-3.0451	11.3390	0.0958	-0.1364	-0.0367	1.4386	0.1451	1.2935	-3.7237
2	-1.87	-0.01	-2.6701	10.3846	0.0847	-0.1204	-0.0395	1.3429	0.1462	1.1967	-3.9634
3	-0.85	-0.02	-2.3886	9.6329	0.0877	-0.1206	-0.0448	1.2891	0.1473	1.1418	-4.1166
4	0.17	-0.01	-2.1716	9.3145	0.0723	-0.1188	-0.0402	1.2368	0.1490	1.0878	-4.2892
5	1.17	-0.02	-1.9464	8.7525	0.0813	-0.0917	-0.0428	1.1829	0.1488	1.0341	-4.4967
6	2.19	-0.02	-1.7191	8.1964	0.0892	-0.0969	-0.0420	1.1320	0.1507	0.9813	-4.7678
7	4.24	-0.01	-1.2690	7.1196	0.0841	-0.0994	-0.0458	1.0280	0.1526	0.8754	-5.6184
8	6.27	-0.02	-0.7901	6.0473	0.0853	-0.0831	-0.0462	0.9306	0.1573	0.7733	-7.6538
9	8.33	-0.02	-0.2741	4.9920	0.1056	-0.1335	-0.0490	0.8360	0.1581	0.6779	-18.2122
10	10.41	-0.02	0.3281	3.9000	0.1017	-0.0932	-0.0482	0.7454	0.1547	0.5907	11.8865
11	12.48	-0.02	1.0007	2.7804	0.1001	-0.0893	-0.0502	0.6417	0.1483	0.4934	2.7784
12	14.59	-0.02	1.6665	1.6680	0.0782	-0.0814	-0.0522	0.5542	0.1486	0.4056	1.0009
13	16.68	-0.02	2.3063	0.8067	0.0865	-0.0731	-0.0541	0.4956	0.1510	0.3446	0.3498
14	18.79	-0.02	2.9072	0.1641	0.0772	-0.0985	-0.0586	0.4527	0.1521	0.3006	0.0565
15	20.90	-0.02	3.5408	-0.5248	0.0907	-0.0301	-0.0562	0.4137	0.1542	0.2595	-0.1482
16	0.14	-0.02	-2.1739	9.3094	0.0924	-0.1227	-0.0468	1.2365	0.1487	1.0878	-4.2823

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
4	2R	2.86	3.0	-90.0	B2W0F33	8.0	20	0	20	0	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-4.10	-0.01	-2.6137	9.5822	0.0880	-0.1516	-0.0432	1.2480	0.1040	1.1440	-3.6662
2	-2.04	-0.02	-2.1809	8.5885	0.0742	-0.1197	-0.0456	1.1471	0.1053	1.0418	-3.9381
3	-0.99	-0.01	-1.9603	8.0779	0.0592	-0.1016	-0.0458	1.0954	0.1068	0.9886	-4.1208
4	0.03	-0.01	-1.7507	7.5813	0.0605	-0.1003	-0.0458	1.0454	0.1084	0.9370	-4.3305
5	1.04	-0.01	-1.5437	7.1072	0.0499	-0.0870	-0.0432	0.9959	0.1093	0.8866	-4.6040
6	2.07	-0.01	-1.3296	6.6212	0.0537	-0.0886	-0.0453	0.9488	0.1104	0.8384	-4.9790
7	4.12	-0.01	-0.9089	5.6981	0.0470	-0.0901	-0.0395	0.8567	0.1123	0.7444	-6.2692
8	6.19	-0.01	-0.4594	4.7630	0.0580	-0.0977	-0.0406	0.7657	0.1158	0.6499	-10.3678
9	8.26	-0.01	0.0705	3.7165	0.0675	-0.1038	-0.0423	0.6739	0.1169	0.5570	52.7160
10	10.35	-0.01	0.6715	2.6455	0.0559	-0.0890	-0.0412	0.5928	0.1146	0.4782	3.9397
11	12.48	-0.01	1.2516	1.6539	0.0517	-0.0846	-0.0461	0.5382	0.1134	0.4248	1.6813
12	14.61	-0.01	1.7512	1.3455	0.0372	-0.0712	-0.0477	0.5047	0.1138	0.3909	0.7683
13	16.75	-0.01	2.2660	0.8909	0.0575	-0.1068	-0.0533	0.4787	0.1125	0.3662	0.3931
14	18.87	-0.01	2.7736	0.4475	0.0490	-0.1005	-0.0612	0.4533	0.1128	0.3405	0.1613
15	21.01	-0.01	3.3063	-0.0470	0.0402	-0.0807	-0.0624	0.4315	0.1128	0.3187	-0.0142
16	0.02	0.0	-1.7374	7.5846	0.0294	-0.0938	-0.0407	1.0427	0.1090	0.9337	-4.3655
17	0.02	0.0	-1.7208	7.5533	0.0284	-0.0927	-0.0434	1.0430	0.1084	0.9346	-4.3894

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)
MARTIN MISSILE TAIL EFFECTS DATA

PAGE 1 OF 1
SHEET 1 OF 1

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
4	29	3.95	3.0	-90.0	B2WOF33	0.0	20	0	20	0	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-4.08	0.0	-2.0450	7.2795	0.0145	-0.0563	-0.0274	0.9809	0.0652	0.9157	-3.5597
2	-2.03	0.0	-1.6624	6.4668	0.0060	-0.0444	-0.0282	0.8977	0.0657	0.8320	-3.8908
3	-1.02	0.0	-1.4726	6.0509	-0.0081	-0.0284	-0.0286	0.8550	0.0663	0.7887	-4.1098
4	0.0	0.0	-1.2879	5.6555	-0.0010	-0.0333	-0.0291	0.8150	0.0663	0.7487	-4.3913
5	1.01	0.0	-1.0959	5.2392	0.0086	-0.0423	-0.0264	0.7732	0.0669	0.7063	-4.7888
6	2.05	0.0	-0.9117	4.8526	-0.0009	-0.0312	-0.0266	0.7314	0.0689	0.6625	-5.3228
7	4.15	-0.01	-0.5042	4.0177	0.0190	-0.0320	-0.0274	0.6493	0.0689	0.5804	-7.9684
8	6.13	-0.01	-0.0905	3.1924	0.0230	-0.0335	-0.0280	0.5748	0.0712	0.5036	-35.2753
9	8.20	-0.01	0.3310	2.5584	0.0306	-0.0408	-0.0321	0.5290	0.0708	0.4582	7.7292
10	10.26	-0.01	0.7170	2.2031	0.0584	-0.0707	-0.0330	0.5108	0.0704	0.4404	3.0727
11	12.34	-0.01	1.0861	1.9666	0.0535	-0.0681	-0.0354	0.5029	0.0695	0.4334	1.8187
12	14.45	-0.01	1.4643	1.7618	0.0486	-0.0491	-0.0438	0.4975	0.0690	0.4285	1.2032
13	16.53	-0.01	1.8389	1.5724	0.0505	-0.0540	-0.0457	0.4955	0.0665	0.4290	0.8551
14	18.61	-0.01	2.2591	1.3134	0.0518	-0.0582	-0.0480	0.4934	0.0665	0.4269	0.5814
15	20.71	-0.01	2.7261	0.9988	0.0506	-0.0765	-0.0473	0.4907	0.0664	0.4243	0.3644
16	-0.01	-0.01	-1.3246	5.6939	0.0411	-0.0436	-0.0320	0.8165	0.0673	0.7492	-4.2986
17	-0.01	-0.01	-1.3247	5.6867	0.0411	-0.0436	-0.0321	0.8164	0.0677	0.7487	-4.2928

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
4	30	4.63	3.0	-90.0	B2=0F33	0.0	20	0	20	0	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-3.75	-0.01	-1.8113	6.2398	0.0754	-0.0468	-0.0250	0.8734	0.0518	0.8216	-3.4458
2	-1.72	-0.01	-1.4530	5.5370	0.0714	-0.0607	-0.0269	0.7998	0.0518	0.7480	-3.8108
3	-0.70	-0.02	-1.2613	5.1653	0.0814	-0.0700	-0.0298	0.7584	0.0521	0.7063	-4.0953
4	0.31	-0.01	-1.0815	4.8110	0.0671	-0.0542	-0.0287	0.7215	0.0532	0.6683	-4.4484
5	1.33	-0.01	-0.9068	4.4680	0.0581	-0.0440	-0.0316	0.6817	0.0532	0.6285	-4.9272
6	2.36	-0.01	-0.7307	4.1193	0.0500	-0.0132	-0.0305	0.6440	0.0539	0.5901	-5.6375
7	4.38	-0.01	-0.3486	3.3907	0.0563	-0.0179	-0.0323	0.5690	0.0550	0.5140	-9.7267
8	6.43	-0.02	0.0321	2.7582	0.0691	-0.0299	-0.0328	0.5151	0.0557	0.4594	85.9257
9	8.48	-0.02	0.3635	2.4187	0.0891	-0.0729	-0.0340	0.4916	0.0557	0.4359	6.6538
10	10.52	-0.02	0.6855	2.2154	0.1076	-0.0939	-0.0374	0.4858	0.0545	0.4313	3.2318
11	12.59	-0.01	0.9996	2.0952	0.0836	-0.0719	-0.0399	0.4839	0.0557	0.4282	2.0961
12	14.65	-0.01	1.3314	1.9584	0.0584	-0.0488	-0.0423	0.4838	0.0520	0.4318	1.4710
13	16.71	-0.01	1.7015	1.7500	0.0647	-0.0579	-0.0454	0.4826	0.0514	0.4312	1.0285
14	18.76	-0.01	2.0780	1.4928	0.0736	-0.0691	-0.0450	0.4843	0.0520	0.4323	0.7184
15	20.85	-0.01	2.4939	1.1671	0.0805	-0.0783	-0.0450	0.4882	0.0520	0.4362	0.4680
16	0.32	-0.01	-1.0928	4.8364	0.0427	-0.0079	-0.0327	0.7196	0.0536	0.6660	-4.4257

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
4	34	2.36	3.0	-90.0	82W0F31	0.0	20	0	20	0	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-4.03	0.01	-1.8479	5.6893	-0.0169	-0.0113	-0.0136	0.8721	0.1390	0.7331	-3.0788
2	-1.96	0.01	-1.5297	5.2422	-0.0187	-0.0092	-0.0122	0.8053	0.1355	0.6698	-3.4269
3	-0.92	0.01	-1.3734	5.0120	-0.0129	-0.0148	-0.0116	0.7777	0.1382	0.6395	-3.6494
4	0.11	0.01	-1.2064	4.7594	-0.0078	-0.0197	-0.0133	0.7480	0.1395	0.6085	-3.9051
5	1.15	0.0	-1.0370	4.4990	-0.0027	-0.0246	-0.0130	0.7205	0.1432	0.5773	-4.3385
6	2.19	0.01	-0.8830	4.2595	-0.0102	-0.0165	-0.0126	0.6932	0.1461	0.5471	-4.8239
7	4.25	0.01	-0.5530	3.7792	-0.0124	-0.0026	-0.0115	0.6397	0.1503	0.4894	-6.8348
8	6.34	0.0	-0.1840	3.2650	-0.0039	-0.0221	-0.0126	0.5896	0.1576	0.4320	-17.7443
9	8.45	0.0	0.2202	2.7904	-0.0088	0.0046	-0.0128	0.5423	0.1580	0.3843	12.6721
10	10.59	0.0	0.7274	2.2678	-0.0060	-0.0108	-0.0124	0.5028	0.1635	0.3393	3.1177
11	12.76	0.0	1.2911	1.7774	-0.0047	-0.0034	-0.0132	0.4645	0.1616	0.3029	1.3766
12	14.93	0.01	1.8303	1.3803	-0.0156	0.0047	-0.0151	0.4390	0.1617	0.2773	0.7541
13	17.09	0.0	2.3668	1.0380	0.0003	-0.0151	-0.0205	0.4205	0.1623	0.2582	0.4384
14	19.27	0.0	2.9416	0.6408	0.0017	-0.0090	-0.0199	0.3964	0.1613	0.2351	0.2179
15	21.46	0.0	3.5103	0.2977	0.0036	-0.0037	-0.0228	0.3775	0.1613	0.2162	0.0848
16	0.11	0.01	-1.2256	4.7948	-0.0069	-0.0207	-0.0111	0.7503	0.1397	0.6106	-3.9122
17	0.10	0.01	-1.2151	4.7785	-0.0075	-0.0201	-0.0133	0.7502	0.1397	0.6105	-3.9326

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
4	35	2.66	3.0	-90.0	B2W0F31	0.0	20	0	20	0	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-4.20	0.0	-1.6753	4.9445	0.0165	-0.0398	-0.0156	0.7952	0.1153	0.6799	-2.9514
2	-2.13	0.0	-1.3621	4.5432	0.0167	-0.0401	-0.0154	0.7314	0.1120	0.6194	-3.3354
3	-1.09	0.0	-1.2083	4.3280	0.0093	-0.0325	-0.0167	0.7020	0.1120	0.5900	-3.5819
4	-0.07	0.0	-1.0498	4.1058	0.0168	-0.0400	-0.0157	0.6751	0.1131	0.5620	-3.9118
5	0.96	0.0	-0.8921	3.8775	0.0093	-0.0321	-0.0148	0.6477	0.1151	0.5326	-4.3465
6	2.00	0.0	-0.7344	3.6545	0.0164	-0.0395	-0.0162	0.6218	0.1161	0.5057	-4.9761
7	4.07	0.0	-0.4006	3.2037	0.0159	-0.0386	-0.0140	0.5697	0.1196	0.4501	-7.9973
8	6.15	0.0	-0.0409	2.7442	0.0139	-0.0358	-0.0142	0.5214	0.1231	0.3983	-67.0962
9	8.25	0.0	0.3759	2.2627	0.0095	-0.0329	-0.0140	0.4743	0.1256	0.3487	6.0193
10	10.36	0.0	0.8632	1.7535	0.0026	-0.0144	-0.0134	0.4386	0.1250	0.3136	2.0314
11	12.49	0.0	1.3490	1.3230	0.0103	-0.0243	-0.0166	0.4068	0.1221	0.2847	0.9808
12	14.63	0.0	1.8251	1.0286	0.0046	-0.0091	-0.0204	0.3930	0.1226	0.2704	0.5636
13	16.76	0.0	2.2937	0.7676	0.0141	-0.0222	-0.0215	0.3809	0.1234	0.2575	0.3346
14	18.91	0.0	2.7628	0.5390	0.0232	-0.0477	-0.0220	0.3720	0.1222	0.2498	0.1951
15	21.05	0.0	3.2616	0.2585	0.0164	-0.0444	-0.0230	0.3671	0.1222	0.2449	0.0793
16	-0.06	0.0	-1.0488	4.1068	0.0013	-0.0368	-0.0156	0.6743	0.1142	0.5601	-3.9158

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	AXIS	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
4	36	3.95	3.0	-90.0	82W0F31	0.0	20	0	20	0	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CA0	CAF	XCP
1	-4.13	0.0	-1.3776	3.8738	-0.0065	-0.0260	-0.0164	0.6418	0.0720	0.5698	-2.8120
2	-2.08	0.0	-1.0830	3.5067	0.0003	-0.0173	-0.0183	0.5904	0.0712	0.5192	-3.2380
3	-1.05	0.0	-0.9330	3.3079	-0.0067	-0.0100	-0.0162	0.5663	0.0712	0.4951	-3.5455
4	-0.03	0.0	-0.7910	3.1245	-0.0134	-0.0033	-0.0172	0.5400	0.0723	0.4677	-3.9501
5	0.99	0.01	-0.6348	2.9266	-0.0207	0.0041	-0.0151	0.5178	0.0731	0.4447	-4.6103
6	2.02	0.0	-0.4865	2.7366	-0.0077	-0.0093	-0.0161	0.4933	0.0733	0.4200	-5.6254
7	4.07	0.0	-0.1742	2.3481	-0.0023	-0.0151	-0.0149	0.4418	0.0739	0.3679	-13.4791
8	6.13	0.0	0.1811	1.8932	0.0010	-0.0186	-0.0142	0.3949	0.0742	0.3207	10.4536
9	8.20	0.0	0.5501	1.5038	0.0043	-0.0063	-0.0188	0.3647	0.0742	0.2905	2.7337
10	10.27	0.0	0.9148	1.2516	-0.0123	0.0086	-0.0216	0.3510	0.0738	0.2772	1.3607
11	12.36	0.0	1.2724	1.1210	0.0125	-0.0198	-0.0229	0.3478	0.0719	0.2759	0.8810
12	14.45	0.0	1.6174	1.0273	0.0179	-0.0285	-0.0238	0.3493	0.0694	0.2799	0.6352
13	16.53	0.0	1.9923	0.9024	0.0218	-0.0359	-0.0248	0.3559	0.0702	0.2857	0.4529
14	18.63	0.0	2.3980	0.7455	0.0043	-0.0213	-0.0259	0.3603	0.0717	0.2886	0.3109
15	20.73	0.0	2.8350	0.5417	0.0254	-0.0464	-0.0273	0.3667	0.0719	0.2948	0.1911
16	-0.03	0.0	-0.7909	3.1245	0.0066	-0.0238	-0.0172	0.5398	0.0730	0.4668	-3.9506
17	-0.04	0.0	-0.7987	3.1325	0.0069	-0.0241	-0.0172	0.5399	0.0726	0.4673	-3.9221

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
4	37	4.63	3.0	-90.0	82#OF31	0.0	20	0	20	0	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-3.76	0.0	-1.1974	3.2795	0.0128	-0.0259	-0.0141	0.5755	0.0546	0.5209	-2.7388
2	-1.73	0.0	-0.9137	2.9672	0.0251	-0.0392	-0.0154	0.5327	0.0556	0.4771	-3.2475
3	-0.70	0.0	-0.7718	2.8110	0.0185	-0.0327	-0.0160	0.5081	0.0556	0.4525	-3.6421
4	0.32	0.0	-0.6301	2.6457	0.0118	-0.0261	-0.0168	0.4837	0.0556	0.4281	-4.1989
5	1.32	0.0	-0.4804	2.4722	0.0306	-0.0455	-0.0135	0.4589	0.0556	0.4033	-5.1462
6	2.35	0.0	-0.3413	2.3212	0.0238	-0.0391	-0.0182	0.4345	0.0556	0.3789	-6.8009
7	4.39	0.0	-0.0220	1.9442	0.0344	-0.0504	-0.0200	0.3843	0.0556	0.3287	-88.3718
8	6.44	0.0	0.2929	1.5810	0.0198	-0.0359	-0.0176	0.3463	0.0550	0.2913	5.3977
9	8.49	0.0	0.6051	1.3662	0.0315	-0.0496	-0.0172	0.3288	0.0558	0.2730	2.2578
10	10.54	0.0	0.9187	1.2292	0.0434	-0.0442	-0.0200	0.3273	0.0561	0.2712	1.3379
11	12.60	0.0	1.2174	1.1704	0.0315	-0.0335	-0.0218	0.3273	0.0555	0.2718	0.9614
12	14.67	-0.01	1.5389	1.1030	0.0435	-0.0488	-0.0235	0.3335	0.0543	0.2792	0.7168
13	16.74	-0.01	1.8847	0.9669	0.0539	-0.0624	-0.0258	0.3393	0.0537	0.2856	0.5130
14	18.79	0.0	2.2342	0.7966	0.0390	-0.0496	-0.0246	0.3468	0.0536	0.2932	0.3566
15	20.87	-0.01	2.6480	0.5525	0.0460	-0.0595	-0.0276	0.3557	0.0537	0.3020	0.2086
16	0.31	-0.01	-0.6307	2.6488	0.0382	-0.0317	-0.0168	0.4815	0.0568	0.4247	-4.1998

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
4	38	2.30	3.0	-90.0	#2 OF 32	0.0	20	0	20	0	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-4.05	0.0	-1.9191	5.8927	-0.0119	0.0042	-0.0092	0.9032	0.1264	0.7766	-3.0705
2	-1.96	0.0	-1.5975	5.4457	-0.0005	-0.0072	-0.0077	0.8460	0.1295	0.7165	-3.4089
3	-0.92	0.0	-1.4283	5.2057	0.0045	-0.0127	-0.0093	0.8162	0.1328	0.6834	-3.6447
4	0.10	0.0	-1.2732	4.9668	-0.0030	-0.0041	-0.0088	0.7889	0.1366	0.6523	-3.9011
5	1.14	0.0	-1.1076	4.7117	0.0023	-0.0091	-0.0084	0.7622	0.1413	0.6209	-4.2548
6	2.18	0.0	-0.9434	4.4475	0.0075	-0.0139	-0.0083	0.7347	0.1458	0.5889	-4.7144
7	4.26	0.0	-0.5875	3.9094	0.0036	-0.0091	-0.0077	0.6774	0.1538	0.5236	-6.6543
8	6.35	0.0	-0.2043	3.3540	-0.0017	-0.0031	-0.0094	0.6233	0.1617	0.4616	-16.4169
9	8.44	0.0	0.2005	2.8548	0.0063	-0.0005	-0.0077	0.5727	0.1678	0.4049	14.2383
10	10.59	0.0	0.7145	2.3365	0.0097	0.0057	-0.0073	0.5280	0.1691	0.3589	3.2701
11	12.75	0.0	1.2578	1.8742	0.0116	0.0013	-0.0079	0.4876	0.1660	0.3216	1.4901
12	14.92	-0.01	1.8127	1.4788	0.0014	0.0419	-0.0074	0.4634	0.1646	0.2988	0.8158
13	17.09	0.0	2.3459	1.1062	0.0035	0.0254	-0.0132	0.4404	0.1630	0.2774	0.4715
14	19.27	0.0	2.9152	0.7195	-0.0078	0.0556	-0.0146	0.4174	0.1630	0.2544	0.2468
15	21.46	0.0	3.4923	0.3513	0.0054	0.0048	-0.0135	0.3968	0.1622	0.2346	0.1006
16	0.11	0.0	-1.2834	4.9771	0.0107	-0.0181	-0.0088	0.7903	0.1363	0.6540	-3.8701

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
4	39	2.86	3.0	-90.0	B2W0F32	0.0	20	8	28	8	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-4.21	0.0	-1.7220	5.0309	0.0198	-0.0187	-0.0147	0.8160	0.1031	0.7129	-2.9215
2	-2.13	0.0	-1.4008	4.6349	0.0199	-0.0189	-0.0120	0.7605	0.1050	0.6555	-3.3088
3	-1.10	-0.01	-1.2479	4.4313	0.0276	-0.0268	-0.0131	0.7330	0.1074	0.6256	-3.5518
4	-0.07	-0.01	-1.0896	4.2110	0.0201	-0.0190	-0.0121	0.7056	0.1104	0.5952	-3.8654
5	0.96	-0.01	-0.9381	3.9965	0.0279	-0.0268	-0.0111	0.6804	0.1134	0.5670	-4.2602
6	2.00	-0.01	-0.7681	3.7650	0.0199	-0.0186	-0.0100	0.6542	0.1167	0.5375	-4.9017
7	4.07	0.0	-0.4407	3.3169	0.0193	-0.0178	-0.0103	0.6007	0.1215	0.4792	-7.5268
8	6.15	0.0	-0.0517	2.8064	0.0158	-0.0142	-0.0109	0.5487	0.1275	0.4212	-54.2018
9	8.24	-0.01	0.3712	2.2910	0.0261	-0.0251	-0.0087	0.4950	0.1289	0.3661	6.1717
10	10.36	0.0	0.8591	1.7891	0.0186	-0.0188	-0.0105	0.4536	0.1255	0.3281	2.0826
11	12.50	0.0	1.3454	1.3681	0.0120	-0.0015	-0.0111	0.4253	0.1213	0.3040	1.0169
12	14.63	0.0	1.8108	1.0857	0.0070	0.0131	-0.0125	0.4097	0.1221	0.2876	0.5996
13	16.77	-0.01	2.2848	0.6288	0.0161	0.0003	-0.0158	0.4019	0.1232	0.2787	0.3627
14	18.91	-0.01	2.7528	0.6103	0.0257	-0.0134	-0.0162	0.3940	0.1220	0.2720	0.2217
15	21.06	-0.01	3.2525	0.3407	0.0194	0.0019	-0.0170	0.3865	0.1213	0.2652	0.1048
16	-0.06	0.0	-1.0905	4.2146	0.0042	-0.0280	-0.0121	0.7060	0.1106	0.5954	-3.8648

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RE/10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
A	40	3.95	3.0	-90.0	B2=0F32	0.0	20	0	20	0	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-4.13	0.01	-1.3914	3.9282	-0.0244	0.0079	-0.0092	0.6560	0.0696	0.5864	-2.8232
2	-2.07	0.0	-1.0946	3.5628	-0.0183	0.0013	-0.0079	0.6133	0.0682	0.5451	-3.2549
3	-1.05	0.01	-0.9542	3.3812	-0.0250	0.0081	-0.0089	0.5874	0.0706	0.5168	-3.5435
4	-0.03	0.01	-0.8047	3.1789	-0.0320	0.0153	-0.0100	0.5654	0.0722	0.4932	-3.9504
5	0.98	0.0	-0.6546	2.9822	-0.0189	0.0020	-0.0079	0.5411	0.0728	0.4683	-4.5418
6	2.03	0.01	-0.5008	2.7845	-0.0264	0.0095	-0.0090	0.5139	0.0728	0.4411	-5.5602
7	4.07	0.01	-0.1812	2.3812	-0.0214	0.0042	-0.0080	0.4627	0.0742	0.3885	-13.1415
8	6.14	0.0	0.1816	1.9239	-0.0187	0.0010	-0.0104	0.4189	0.0741	0.3448	10.5944
9	8.20	0.0	0.5500	1.5418	-0.0151	0.0131	-0.0117	0.3879	0.0756	0.3123	2.8033
10	10.27	0.0	0.9039	1.3300	-0.0109	0.0065	-0.0141	0.3741	0.0746	0.2995	1.4714
11	12.36	0.0	1.2560	1.2070	-0.0054	0.0146	-0.0153	0.3734	0.0725	0.3009	0.9610
12	14.45	0.0	1.6008	1.1204	0.0008	0.0218	-0.0129	0.3775	0.0706	0.3069	0.6999
13	16.54	0.0	1.9676	1.0252	0.0052	0.0138	-0.0136	0.3856	0.0701	0.3155	0.5210
14	18.64	0.0	2.3691	0.9068	0.0083	0.0069	-0.0142	0.3940	0.0710	0.3230	0.3828
15	20.74	0.0	2.8063	0.7247	0.0094	0.0020	-0.0153	0.4017	0.0707	0.3310	0.2582
16	-0.03	0.0	-0.8215	3.1932	0.0099	0.0060	-0.0101	0.5466	0.0731	0.4935	-3.8878

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
4	41	4.63	3.0	-90.0	B2W0F32	0.0	20	0	20	0	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-3.77	0.0	-1.2294	3.3619	0.0156	-0.0078	-0.0092	0.5895	0.0550	0.5345	-2.7346
2	-1.73	-0.01	-0.9397	3.0341	0.0284	-0.0000	-0.0106	0.5479	0.0550	0.4929	-3.2288
3	-0.71	-0.01	-0.8001	2.8618	0.0216	0.0066	-0.0115	0.5241	0.0550	0.4691	-3.5768
4	0.31	0.0	-0.6502	2.6880	0.0150	0.0134	-0.0082	0.5032	0.0550	0.4482	-4.1341
5	1.32	-0.01	-0.5005	2.5144	0.0335	-0.0058	-0.0090	0.4784	0.0557	0.4227	-5.0238
6	2.35	-0.01	-0.3507	2.3407	0.0265	0.0010	-0.0098	0.4531	0.0557	0.3974	-6.6744
7	4.39	-0.01	-0.0413	1.9741	0.0375	-0.0107	-0.0116	0.4032	0.0557	0.3475	-47.7979
8	6.45	-0.01	0.2937	1.6014	0.0474	-0.0216	-0.0131	0.3680	0.0568	0.3112	5.4523
9	8.49	-0.01	0.5965	1.4024	0.0340	-0.0096	-0.0127	0.3541	0.0568	0.2973	2.3511
10	10.55	-0.01	0.8998	1.3049	0.0465	-0.0251	-0.0150	0.3520	0.0561	0.2959	1.4502
11	12.61	-0.01	1.2001	1.2567	0.0602	-0.0207	-0.0166	0.3583	0.0555	0.3028	1.0472
12	14.67	-0.01	1.5105	1.2073	0.0474	-0.0106	-0.0141	0.3672	0.0556	0.3116	0.7993
13	16.74	-0.01	1.8487	1.0917	0.0328	0.0014	-0.0162	0.3818	0.0536	0.3282	0.5905
14	18.80	-0.01	2.2061	0.9377	0.0428	-0.0117	-0.0187	0.3873	0.0536	0.3337	0.4250
15	20.87	-0.01	2.5935	0.7433	0.0516	-0.0236	-0.0173	0.3954	0.0536	0.3418	0.2866
16	0.30	-0.01	-0.6603	2.6892	0.0410	-0.0131	-0.0083	0.5003	0.0561	0.4442	-4.8727

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
4	42	2.86	3.0	-90.0	B2W0F36	0.0	20	0	20	0	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-4.23	0.0	-1.5247	4.1150	0.0205	-0.0379	-0.0086	0.7278	0.1200	0.6078	-2.4901
2	-2.15	0.0	-1.2281	3.7923	-0.0001	-0.0174	-0.0051	0.6696	0.1171	0.5525	-3.0880
3	-1.12	0.0	-1.0744	3.5724	0.0041	-0.0217	-0.0065	0.6413	0.1176	0.5237	-3.3250
4	-0.09	0.0	-0.9323	3.4475	0.0094	-0.0277	-0.0067	0.6152	0.1167	0.4985	-3.6978
5	0.94	0.0	-0.7918	3.3049	0.0029	-0.0214	-0.0071	0.5890	0.1169	0.4721	-4.1739
6	1.98	0.0	-0.6354	3.0946	-0.0046	-0.0137	-0.0084	0.5615	0.1158	0.4457	-4.8703
7	4.05	0.0	-0.3095	2.7125	-0.0046	-0.0141	-0.0054	0.5151	0.1174	0.3977	-8.7641
8	6.14	0.0	0.0341	2.3588	0.0097	-0.0297	-0.0042	0.4721	0.1183	0.3538	69.1748
9	8.24	0.0	0.4421	1.9426	0.0063	-0.0148	-0.0056	0.4413	0.1236	0.3177	4.3941
10	10.36	0.0	0.9140	1.5253	0.0007	0.0143	-0.0064	0.4156	0.1259	0.2897	1.6689
11	12.50	0.0	1.3766	1.2453	-0.0047	0.0167	-0.0077	0.3994	0.1252	0.2742	0.9046
12	14.64	0.0	1.8292	1.0426	0.0061	0.0146	-0.0081	0.3941	0.1257	0.2684	0.5700
13	16.77	0.0	2.2818	0.8505	0.0021	0.0275	-0.0084	0.3890	0.1261	0.2629	0.3727
14	18.91	0.0	2.7512	0.6510	0.0114	0.0014	-0.0085	0.3796	0.1252	0.2544	0.2366
15	21.07	0.0	3.2532	0.3986	0.0053	0.0289	-0.0090	0.3753	0.1249	0.2504	0.1225
16	-0.09	0.0	-0.9362	3.4519	0.0097	-0.0280	-0.0066	0.6139	0.1156	0.4983	-3.6072

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)
MARTIN MISSILE TAIL EFFECTS DATA

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
4	43	2.36	3.0	-90.0	#2+0F36	0.0	20	0	20	0	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-4.08	0.0	-1.7019	4.7637	-0.0013	-0.0088	-0.0060	0.8016	0.1504	0.6512	-2.7998
2	-2.00	0.0	-1.3777	4.3782	0.0037	-0.0255	-0.0057	0.7462	0.1471	0.5991	-3.1779
3	-0.97	0.0	-1.2410	4.2446	0.0077	-0.0301	-0.0061	0.7130	0.1444	0.5686	-3.4203
4	0.08	0.0	-1.0798	4.0147	-0.0030	-0.0190	-0.0075	0.6814	0.1455	0.5359	-3.7180
5	1.10	0.0	-0.9054	3.7331	0.0031	0.0088	-0.0053	0.6558	0.1461	0.5097	-4.1232
6	2.15	0.0	-0.7512	3.5436	-0.0048	-0.0055	-0.0042	0.6324	0.1478	0.4846	-4.7173
7	4.23	0.0	-0.4172	3.1459	0.0060	-0.0170	-0.0040	0.5834	0.1494	0.4340	-7.5405
8	6.33	0.0	-0.0673	2.7542	0.0031	-0.0147	-0.0036	0.5369	0.1494	0.3875	-40.9241
9	8.44	0.0	0.3247	2.3889	-0.0012	-0.0006	-0.0045	0.5017	0.1556	0.3461	7.3573
10	10.59	0.0	0.7992	1.9954	0.0043	0.0027	-0.0049	0.4739	0.1596	0.3143	2.4968
11	12.75	0.0	1.3127	1.6930	-0.0051	0.0088	-0.0057	0.4558	0.1625	0.2933	1.2897
12	14.93	0.0	1.8425	1.3893	-0.0010	0.0230	-0.0064	0.4425	0.1639	0.2786	0.7540
13	17.11	0.0	2.3461	1.2448	-0.0080	0.0585	-0.0072	0.4383	0.1649	0.2734	0.5306
14	19.29	0.0	2.8942	0.9664	-0.0054	0.0514	-0.0072	0.4227	0.1693	0.2534	0.3339
15	21.49	-0.01	3.4486	0.6693	0.0097	0.0204	-0.0074	0.4053	0.1689	0.2364	0.1941
16	0.07	0.0	-1.0787	4.0205	0.0106	-0.0219	-0.0095	0.6811	0.1457	0.5354	-3.7272
17	0.07	0.0	-1.0904	4.0366	0.0112	-0.0224	-0.0074	0.6820	0.1452	0.5368	-3.7020

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)
MARTIN MISSILE TAIL EFFECTS DATA

PAGE 1 OF 1
SHEET 1 OF 1

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
4	44	3.95	3.0	-90.0	#2#OF36	0.0	20	0	20	0	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-4.15	0.0	-1.2627	3.2294	0.0250	-0.0380	-0.0078	0.5866	0.0729	0.5137	-2.5575
2	-2.09	0.0	-0.9761	2.9220	0.0029	-0.0159	-0.0057	0.5375	0.0723	0.4652	-2.9936
3	-1.07	0.0	-0.8339	2.7604	0.0118	-0.0254	-0.0064	0.5147	0.0729	0.4418	-3.3102
4	-0.04	0.0	-0.6930	2.6030	0.0007	-0.0142	-0.0072	0.4905	0.0729	0.4176	-3.7562
5	0.97	0.0	-0.5461	2.4436	-0.0061	-0.0077	-0.0078	0.4685	0.0737	0.3948	-4.4767
6	2.01	0.0	-0.4061	2.2954	0.0077	-0.0221	-0.0051	0.4478	0.0738	0.3740	-5.6526
7	4.07	0.0	-0.1127	2.0092	0.0139	-0.0295	-0.0092	0.4065	0.0738	0.3327	-17.8279
8	6.13	0.0	0.2280	1.6363	-0.0014	0.0023	-0.0107	0.3694	0.0739	0.2955	7.1767
9	8.19	-0.01	0.5922	1.3023	0.0228	-0.0070	-0.0082	0.3479	0.0745	0.2734	2.1991
10	10.28	0.0	0.9582	1.0955	0.0073	0.0233	-0.0105	0.3369	0.0749	0.2620	1.1433
11	12.36	0.0	1.3029	0.9773	0.0125	0.0149	-0.0117	0.3364	0.0730	0.2634	0.7501
12	14.44	0.0	1.6456	0.9219	-0.0019	0.0262	-0.0121	0.3397	0.0702	0.2695	0.5602
13	16.54	0.0	2.0235	0.8286	0.0024	0.0183	-0.0095	0.3483	0.0710	0.2773	0.4095
14	18.63	0.0	2.4217	0.6966	0.0060	0.0279	-0.0103	0.3568	0.0727	0.2841	0.2877
15	20.74	0.0	2.8510	0.5253	0.0075	0.0227	-0.0113	0.3623	0.0737	0.2886	0.1842
16	-0.05	0.0	-0.7007	2.6111	0.0217	-0.0190	-0.0071	0.4882	0.0738	0.4144	-3.7265

TEST	PART	MACH	RX10-6	PHI	CONF	L	DEL1	DEL2	DEL3	DEL4	TRANSITION
4	45	4.63	3.0	-90.0	BZ=0F36	0.0	20	0	20	0	FIXED

POINT	ALPHA	BETA	CN	CLM	CY	CLN	CLL	CA	CAB	CAF	XCP
1	-3.79	0.0	-1.1019	2.7096	0.0548	-0.0654	-0.0084	0.5245	0.0561	0.4684	-2.4598
2	-1.74	0.0	-0.8177	2.4520	0.0304	-0.0414	-0.0090	0.4816	0.0572	0.4244	-2.9987
3	-0.72	-0.01	-0.6855	2.3244	0.0450	-0.0354	-0.0094	0.4560	0.0578	0.3982	-3.3908
4	0.30	-0.01	-0.5436	2.1866	0.0329	-0.0234	-0.0098	0.4330	0.0585	0.3745	-4.0225
5	1.32	0.0	-0.4057	2.0622	0.0266	-0.0175	-0.0100	0.4112	0.0585	0.3527	-5.0831
6	2.36	-0.01	-0.2677	1.9471	0.0459	-0.0378	-0.0101	0.3919	0.0585	0.3334	-7.2735
7	4.39	-0.01	0.0178	1.6625	0.0328	-0.0252	-0.0111	0.3487	0.0579	0.2908	93.3981
8	6.43	-0.01	0.3335	1.3542	0.0446	-0.0170	-0.0120	0.3226	0.0579	0.2647	4.0604
9	8.49	-0.01	0.6408	1.1711	0.0309	-0.0048	-0.0154	0.3089	0.0579	0.2510	1.8275
10	10.54	-0.01	0.9466	1.0679	0.0434	-0.0202	-0.0136	0.3095	0.0580	0.2515	1.1282
11	12.60	-0.01	1.2465	1.0251	0.0316	0.0103	-0.0152	0.3159	0.0568	0.2591	0.8224
12	14.67	0.0	1.5663	0.9618	0.0183	0.0210	-0.0128	0.3216	0.0556	0.2660	0.6140
13	16.74	-0.01	1.9140	0.8280	0.0288	0.0073	-0.0151	0.3272	0.0549	0.2723	0.4326
14	18.80	-0.01	2.2709	0.6591	0.0389	-0.0057	-0.0137	0.3359	0.0541	0.2818	0.2902
15	20.87	-0.01	2.6678	0.4489	0.0481	0.0037	-0.0124	0.3446	0.0541	0.2905	0.1683
16	0.30	-0.01	-0.5535	2.1969	0.0333	-0.0237	-0.0097	0.4300	0.0572	0.3728	-3.9692

APPENDIX E
TEST 5

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST	PART	MACH	RE10-6	CONF	TRANSITION
5	2	1.50	1.8	F35	FIXED

POINT	ALPHA	CNF	CM	CB	XCPF	YCPF
1	-6.00	-0.2429	0.0084	-0.0867	-0.0345	0.3568
2	-4.00	-0.1525	0.0056	-0.0499	-0.0353	0.3272
3	-3.00	-0.1089	0.0041	-0.0338	-0.0373	0.3104
4	-2.00	-0.0636	0.0033	-0.0187	-0.0523	0.2948
5	-1.00	-0.0236	0.0021	-0.0040	-0.0902	0.1695
6	0.0	0.0197	0.0011	0.0125	0.0574	0.6345
7	1.00	0.0615	0.0003	0.0266	0.0054	0.4325
8	2.00	0.1013	-0.0007	0.0424	-0.0066	0.4186
9	3.00	0.1525	-0.0019	0.0588	-0.0122	0.3856
10	4.00	0.2000	-0.0033	0.0757	-0.0166	0.3785
11	6.00	0.3026	-0.0063	0.1107	-0.0209	0.3658
12	8.00	0.3940	-0.0089	0.1417	-0.0225	0.3596
13	10.00	0.4914	-0.0117	0.1712	-0.0238	0.3484
14	12.00	0.5846	-0.0148	0.2002	-0.0254	0.3425
15	14.00	0.6806	-0.0183	0.2284	-0.0269	0.3356
16	16.00	0.7651	-0.0209	0.2526	-0.0273	0.3302
17	18.00	0.8503	-0.0229	0.2742	-0.0269	0.3225

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH PX10-6 CONF TRANSITION
5 3 1.80 1.8 F35 FIXED

POINT	ALPHA	CNF	CM	CH	XCPF	YCPF
1	-6.00	-0.1676	0.0063	-0.0685	-0.0373	0.4087
2	-4.00	-0.1345	0.0050	-0.0498	-0.0371	0.3703
3	-3.00	-0.0965	0.0039	-0.0348	-0.0400	0.3606
4	-2.00	-0.0586	0.0025	-0.0203	-0.0432	0.3464
5	-1.00	-0.0243	0.0011	-0.0064	-0.0466	0.2634
6	0.0	0.0181	-0.0004	0.0065	-0.0221	0.3591
7	1.00	0.0546	-0.0018	0.0198	-0.0329	0.3626
8	2.00	0.0892	-0.0031	0.0338	-0.0343	0.3789
9	3.00	0.1275	-0.0043	0.0480	-0.0334	0.3765
10	4.00	0.1658	-0.0053	0.0615	-0.0321	0.3709
11	6.00	0.2464	-0.0073	0.0884	-0.0294	0.3588
12	8.00	0.3231	-0.0089	0.1123	-0.0274	0.3476
13	10.00	0.3978	-0.0106	0.1349	-0.0266	0.3391
14	12.00	0.4665	-0.0121	0.1561	-0.0260	0.3346
15	14.00	0.5380	-0.0136	0.1753	-0.0254	0.3258
16	16.00	0.6106	-0.0154	0.1935	-0.0252	0.3169
17	18.00	0.6749	-0.0167	0.2115	-0.0247	0.3134
18	20.00	0.7377	-0.0180	0.2276	-0.0244	0.3085
19	22.00	0.8076	-0.0207	0.2424	-0.0256	0.3001
20	24.00	0.8769	-0.0231	0.2583	-0.0263	0.2946
21	26.00	0.9447	-0.0256	0.2763	-0.0271	0.2925
22	28.00	1.0044	-0.0276	0.2927	-0.0275	0.2914
23	0.0	0.0162	-0.0003	0.0053	-0.0205	0.3272
24	0.0	0.0163	-0.0003	0.0050	-0.0163	0.3067

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)

PAGE 1 OF 1 MARTIN MISSILE TAIL EFFECTS DATA

SHEET 1 OF 1 SPLITTER PLATE DATA

TEST PART MACH RX10-6 CONF TRANSITION
5 4 2.16 2.5 F35 FIXED

POINT	ALPHA	CNF	CH	CB	XCPF	YCPF
1	-6.00	-0.1247	0.0046	-0.0483	-0.0368	0.3873
2	-4.00	-0.0681	0.0031	-0.0297	-0.0355	0.3371
3	-3.00	-0.0550	0.0021	-0.0170	-0.0387	0.3091
4	-2.00	-0.0215	0.0011	-0.0059	-0.0526	0.2744
5	-1.00	0.0150	0.0001	0.0051	0.0044	0.3400
6	0.0	0.0413	-0.0009	0.0161	-0.0226	0.3898
7	1.00	0.0749	-0.0018	0.0272	-0.0240	0.3632
8	2.00	0.1084	-0.0027	0.0389	-0.0252	0.3589
9	3.00	0.1421	-0.0037	0.0503	-0.0258	0.3540
10	4.00	0.1756	-0.0045	0.0617	-0.0254	0.3514
11	6.00	0.2387	-0.0059	0.0820	-0.0248	0.3435
12	8.00	0.2993	-0.0073	0.1013	-0.0245	0.3385
13	10.00	0.3600	-0.0091	0.1203	-0.0251	0.3342
14	12.00	0.4242	-0.0107	0.1369	-0.0253	0.3227
15	14.00	0.4849	-0.0127	0.1544	-0.0262	0.3184
16	16.00	0.5461	-0.0146	0.1704	-0.0268	0.3120
17	18.00	0.6032	-0.0164	0.1880	-0.0271	0.3117
18	20.00	0.6647	-0.0178	0.2024	-0.0267	0.3045
19	0.0	0.0427	-0.0009	0.0162	-0.0203	0.3794
20	20.00	0.6659	-0.0180	0.2019	-0.0270	0.3032
21	22.00	0.7202	-0.0201	0.2175	-0.0276	0.2987
22	24.00	0.7853	-0.0216	0.2320	-0.0275	0.2954
23	26.00	0.8531	-0.0235	0.2482	-0.0275	0.2909
24	28.00	0.9146	-0.0260	0.2648	-0.0285	0.2895

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)

PAGE 1 OF 1 MARTIN MISSILE TAIL EFFECTS DATA

SHEET 1 OF 1 SPLITTER PLATE DATA

TEST 5 PART 5 MACH 1.50 RX10-6 1.8 CONF F34 TRANSITION FIXED

POINT	ALPHA	CNF	CM	CB	XCPF	YCPF
1	-6.00	-0.2775	-0.0056	-0.1167	0.0202	0.4205
2	-4.00	-0.1579	-0.0036	-0.0652	0.0227	0.4129
3	-3.00	-0.1129	-0.0027	-0.0423	0.0241	0.3747
4	-2.00	-0.0517	-0.0007	-0.0218	0.0135	0.4217
5	-1.00	-0.0031	0.0016	0.0019	-0.5269	-0.6129
6	0.0	0.0537	0.0037	0.0253	0.0681	0.4711
7	1.00	0.1065	0.0060	0.0476	0.0562	0.4469
8	2.00	0.1636	0.0076	0.0713	0.0466	0.4358
9	3.00	0.2188	0.0086	0.0952	0.0395	0.4351
10	4.00	0.2762	0.0094	0.1191	0.0341	0.4312
11	6.00	0.3914	0.0100	0.1687	0.0254	0.4318
12	8.00	0.5075	0.0093	0.2193	0.0182	0.4321
13	10.00	0.6224	0.0076	0.2688	0.0122	0.4287
14	12.00	0.7369	0.0051	0.3107	0.0069	0.4216
15	14.00	0.8418	0.0018	0.3530	0.0021	0.4193
16	16.00	0.9460	-0.0011	0.3876	-0.0012	0.4097

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH RX10-6 CONF TRANSITION
5 6 1.60 1.6 F34 FIXED

POINT	ALPHA	CNF	CM	CN	XCPF	YCPF
1	-6.00	-0.1881	0.0014	-0.0851	-0.0074	0.4524
2	-4.00	-0.1664	0.0011	-0.0551	-0.0085	0.3311
3	-3.00	-0.1285	0.0009	-0.0356	-0.0067	0.2770
4	-2.00	-0.0841	0.0005	-0.0180	-0.0065	0.2148
5	-1.00	-0.0456	0.0004	-0.0007	-0.0085	0.0154
6	0.0	-0.0071	0.0002	0.0161	-0.0329	-2.2676
7	1.00	0.0313	0.0001	0.0341	0.0025	1.0895
8	2.00	0.0680	-0.0002	0.0512	-0.0034	0.7529
9	3.00	0.1123	-0.0006	0.0707	-0.0055	0.6296
10	4.00	0.1547	-0.0009	0.0892	-0.0055	0.5766
11	6.00	0.2436	-0.0015	0.1273	-0.0061	0.5226
12	8.00	0.3290	-0.0024	0.1647	-0.0073	0.5006
13	10.00	0.4205	-0.0038	0.2028	-0.0085	0.4823
14	12.00	0.5085	-0.0047	0.2391	-0.0092	0.4702
15	14.00	0.5956	-0.0058	0.2729	-0.0097	0.4580
16	16.00	0.6836	-0.0073	0.3073	-0.0107	0.4497
17	18.00	0.7697	-0.0093	0.3389	-0.0121	0.4403
18	20.00	0.8527	-0.0117	0.3691	-0.0138	0.4329
19	22.00	0.9420	-0.0151	0.3982	-0.0160	0.4227
20	0.0	-0.0013	0.0002	0.0169	-0.1795	-13.0000
21	22.00	0.9689	-0.0137	0.3948	-0.0141	0.4075
22	24.00	1.0303	-0.0166	0.4206	-0.0162	0.4141
23	26.00	1.0791	-0.0184	0.4594	-0.0170	0.4257
24	28.00	1.1386	-0.0205	0.4853	-0.0180	0.4262

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH RX10-6 CONF TRANSITION
5 7 2.16 2.5 F34 FIXED

POINT	ALPHA	CNF	CH	CB	XCPF	YCPF
1	-6.00	-0.1484	0.0033	-0.0647	-0.0220	0.4368
2	-4.00	-0.1013	0.0020	-0.0320	-0.0200	0.3159
3	-3.00	-0.0717	0.0016	-0.0179	-0.0217	0.2497
4	-2.00	-0.0377	0.0010	-0.0036	-0.0268	0.0955
5	-1.00	-0.0035	0.0005	0.0093	-0.1333	-2.6571
6	0.0	0.0307	0.0	0.0227	0.0	0.7394
7	1.00	0.0571	-0.0005	0.0375	-0.0082	0.6567
8	2.00	0.0942	-0.0010	0.0529	-0.0107	0.5616
9	3.00	0.1329	-0.0015	0.0671	-0.0111	0.5049
10	4.00	0.1700	-0.0020	0.0815	-0.0119	0.4794
11	6.00	0.2360	-0.0033	0.1122	-0.0138	0.4754
12	8.00	0.3094	-0.0045	0.1435	-0.0146	0.4638
13	10.00	0.3848	-0.0054	0.1750	-0.0141	0.4548
14	12.00	0.4588	-0.0064	0.2064	-0.0139	0.4499
15	14.00	0.5344	-0.0072	0.2362	-0.0135	0.4420
16	16.00	0.6102	-0.0084	0.2654	-0.0138	0.4349
17	18.00	0.6943	-0.0102	0.2928	-0.0147	0.4217
18	0.0	0.0336	0.0001	0.0238	0.0023	0.7083
19	18.00	0.6908	-0.0096	0.2942	-0.0140	0.4259
20	20.00	0.7536	-0.0118	0.3236	-0.0157	0.4294
21	22.00	0.8478	-0.0144	0.3545	-0.0170	0.4181
22	24.00	0.9126	-0.0170	0.3799	-0.0187	0.4163
23	26.00	0.9731	-0.0191	0.4071	-0.0197	0.4184
24	28.00	1.0477	-0.0224	0.4321	-0.0214	0.4124

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH RX10-6 CONF TRANSITION
5 B 1.50 1.8 F31 FIXED

POINT	ALPHA	CNF	CM	CN	ACPF	YCPF
1	-6.00	-0.1335	-0.0057	-0.0329	0.0425	0.2464
2	-4.00	-0.0796	-0.0033	-0.0125	0.0410	0.1570
3	-3.00	-0.0555	-0.0016	-0.0060	0.0280	0.1081
4	-2.00	-0.0365	0.0001	-0.0003	-0.0021	0.0082
5	-1.00	-0.0254	0.0017	0.0068	-0.0674	-0.2677
6	0.0	-0.0093	0.0038	0.0123	-0.4098	-1.3226
7	1.00	0.0066	0.0057	0.0202	0.8350	2.9706
8	2.00	0.0202	0.0075	0.0288	0.3735	1.4257
9	3.00	0.0467	0.0093	0.0380	0.1982	0.8137
10	4.00	0.0709	0.0105	0.0478	0.1481	0.6742
11	6.00	0.1273	0.0122	0.0741	0.0959	0.5821
12	8.00	0.1695	0.0125	0.1041	0.0661	0.5493
13	10.00	0.2581	0.0114	0.1391	0.0443	0.5380
14	12.00	0.3382	0.0095	0.1681	0.0281	0.4970
15	14.00	0.4159	0.0069	0.1988	0.0166	0.4780
16	16.00	0.4910	0.0046	0.2281	0.0093	0.4646
17	18.00	0.5555	0.0023	0.2594	0.0042	0.4670
18	20.00	0.6404	-0.0019	0.2655	-0.0030	0.4458
19	22.00	0.7156	-0.0077	0.3178	-0.0108	0.4441
20	24.00	0.7946	-0.0116	0.3443	-0.0146	0.4332
21	26.00	0.8718	-0.0152	0.3673	-0.0175	0.4213
22	28.00	0.9399	-0.0184	0.3926	-0.0195	0.4177
23	0.0	0.0039	0.0040	0.0083	1.0171	2.1282

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST	PART	MACH	RX10-6	CONF	TRANSITION
5	9	1.80	1.8	F31	FIXED

POINT	ALPHA	CNF	CM	CA	XCPF	YCPF
1	-6.00	-0.1174	-0.0037	-0.0449	0.0311	0.3825
2	-4.00	-0.0796	-0.0025	-0.0215	0.0315	0.2722
3	-3.00	-0.0756	-0.0018	-0.0176	0.0206	0.1005
4	-2.00	-0.0407	-0.0004	-0.0046	0.0096	0.1138
5	-1.00	-0.0213	0.0008	0.0009	-0.0365	-0.0423
6	0.0	-0.0068	0.0012	0.0079	-0.1830	-1.1618
7	1.00	0.0101	0.0020	0.0141	0.2002	1.3960
8	2.00	0.0293	0.0033	0.0208	0.1115	0.7099
9	3.00	0.0485	0.0044	0.0287	0.0898	0.5918
10	4.00	0.0676	0.0051	0.0411	0.0748	0.6080
11	6.00	0.1220	0.0058	0.0654	0.0472	0.5361
12	8.00	0.1797	0.0054	0.0908	0.0303	0.5053
13	10.00	0.2433	0.0043	0.1178	0.0176	0.4842
14	12.00	0.3023	0.0021	0.1460	0.0069	0.4830
15	14.00	0.3670	-0.0002	0.1690	-0.0006	0.4605
16	16.00	0.4264	-0.0026	0.1948	-0.0062	0.4568
17	18.00	0.4976	-0.0064	0.2180	-0.0128	0.4381
18	20.00	0.5534	-0.0106	0.2459	-0.0191	0.4443
19	22.00	0.6191	-0.0138	0.2685	-0.0224	0.4337
20	24.00	0.6816	-0.0163	0.2912	-0.0238	0.4272
21	26.00	0.7504	-0.0200	0.3117	-0.0266	0.4154
22	28.00	0.8006	-0.0233	0.3367	-0.0291	0.4206
23	0.0	-0.0149	0.0014	0.0115	-0.0940	-0.7718
24	0.0	-0.0096	0.0013	0.0099	-0.1377	-1.0313

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)

PAGE 1 OF 1 MARTIN MISSILE TAIL EFFECTS DATA

SHEET 1 OF 1 SPLITTER PLATE DATA

TEST	PART	MACH	RX10-6	CONF	TRANSITION
5	10	2.16	2.5	F31	FIXED

POINT	ALPHA	CNF	CM	CS	XCPF	YCPF
1	-6.00	-0.0979	-0.0012	-0.0303	0.0119	0.3095
2	-4.00	-0.0582	-0.0008	-0.0102	0.0134	0.1753
3	-3.00	-0.0415	0.0001	-0.0039	-0.0019	0.0948
4	-2.00	-0.0228	0.0009	0.0027	-0.0375	-0.1184
5	-1.00	-0.0139	0.0012	0.0114	-0.0895	-0.8201
6	0.0	0.0093	0.0019	0.0148	0.2007	1.5914
7	1.00	0.0320	0.0026	0.0220	0.0826	0.6879
8	2.00	0.0466	0.0033	0.0324	0.0701	0.6953
9	3.00	0.0696	0.0035	0.0420	0.0503	0.6034
10	4.00	0.0988	0.0035	0.0515	0.0354	0.5213
11	6.00	0.1454	0.0026	0.0756	0.0177	0.5199
12	8.00	0.1987	0.0011	0.0985	0.0055	0.4957
13	10.00	0.2585	-0.0011	0.1211	-0.0042	0.4685
14	12.00	0.3108	-0.0037	0.1451	-0.0120	0.4669
15	14.00	0.3632	-0.0065	0.1681	-0.0180	0.4628
16	16.00	0.4198	-0.0094	0.1890	-0.0224	0.4502
17	18.00	0.4789	-0.0128	0.2108	-0.0266	0.4402
18	20.00	0.5382	-0.0163	0.2325	-0.0302	0.4328
19	22.00	0.5989	-0.0194	0.2546	-0.0325	0.4251
20	24.00	0.6575	-0.0219	0.2732	-0.0332	0.4155
21	26.00	0.7121	-0.0245	0.2965	-0.0344	0.4164
22	28.00	0.7706	-0.0271	0.3167	-0.0351	0.4118
23	0.0	0.0070	0.0019	0.0173	0.2778	2.4714

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST	PART	MACH	RX10-6	CONF	TRANSITION
5	11	1.50	1.8	F32	FIXED

POINT	ALPHA	CNF	CM	CR	XCPF	YCPF
1	-6.00	-0.0690	-0.0151	-0.0338	0.2188	0.4899
2	-4.00	-0.0517	-0.0107	-0.0240	0.2070	0.4642
3	-3.00	-0.0310	-0.0068	-0.0174	0.2194	0.5613
4	-2.00	-0.0186	-0.0026	-0.0094	0.1398	0.5054
5	-1.00	-0.0006	0.0015	-0.0043	-2.5000	7.1667
6	0.0	0.0174	0.0061	-0.0026	0.3506	-0.1494
7	1.00	0.0326	0.0103	0.0034	0.3160	0.1043
8	2.00	0.0476	0.0146	0.0117	0.3067	0.2458
9	3.00	0.0652	0.0185	0.0226	0.2837	0.3466
10	4.00	0.0934	0.0225	0.0303	0.2409	0.3244
11	6.00	0.1368	0.0294	0.0541	0.2149	0.3955
12	8.00	0.1990	0.0346	0.0823	0.1739	0.4136
13	10.00	0.2726	0.0382	0.1114	0.1401	0.4087
14	12.00	0.3440	0.0399	0.1466	0.1160	0.4262
15	14.00	0.4164	0.0411	0.1771	0.0987	0.4253
16	16.00	0.4886	0.0414	0.2143	0.0847	0.4386
17	18.00	0.5611	0.0414	0.2491	0.0738	0.4439
18	20.00	0.6455	0.0410	0.2839	0.0635	0.4398
19	22.00	0.7198	0.0397	0.3187	0.0552	0.4428
20	24.00	0.8006	0.0387	0.3517	0.0483	0.4393
21	26.00	0.8661	0.0363	0.3866	0.0442	0.4464
22	28.00	0.9374	0.0378	0.4127	0.0403	0.4403
23	0.0	0.0172	0.0062	-0.0002	0.3605	-0.0116

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST	PART	MACH	RX10-6	CONF	TRANSITION
5	12	1.80	1.8	F32	FIXED

POINT	ALPHA	CNF	CM	CH	XCPF	YCPF
1	-6.00	-0.0752	-0.0121	-0.0382	0.1609	0.5080
2	-4.00	-0.0540	-0.0096	-0.0297	0.1778	0.5500
3	-3.00	-0.0357	-0.0067	-0.0214	0.1877	0.5994
4	-2.00	-0.0146	-0.0036	-0.0139	0.2432	0.9392
5	-1.00	-0.0016	-0.0004	-0.0074	0.2222	4.1111
6	0.0	0.0144	0.0023	-0.0031	0.1597	-0.2153
7	1.00	0.0301	0.0055	0.0026	0.1827	0.0864
8	2.00	0.0457	0.0090	0.0083	0.1969	0.1816
9	4.00	0.0823	0.0165	0.0259	0.1762	0.3147
10	6.00	0.1319	0.0194	0.0474	0.1471	0.3596
11	8.00	0.1695	0.0236	0.0709	0.1245	0.3741
12	10.00	0.2470	0.0271	0.1000	0.1097	0.4049
13	12.00	0.3077	0.0299	0.1270	0.0972	0.4127
14	14.00	0.3715	0.0318	0.1552	0.0856	0.4178
15	16.00	0.4332	0.0326	0.1863	0.0753	0.4301
16	18.00	0.5006	0.0328	0.2165	0.0655	0.4285
17	20.00	0.5605	0.0324	0.2448	0.0578	0.4368
18	22.00	0.6287	0.0316	0.2715	0.0503	0.4318
19	24.00	0.6947	0.0300	0.2999	0.0432	0.4317
20	26.00	0.7611	0.0279	0.3282	0.0367	0.4312
21	28.00	0.8222	0.0256	0.3556	0.0311	0.4325
22	0.0	0.0141	0.0026	-0.0019	0.1844	-0.1348
23	3.00	0.0635	0.0123	0.0166	0.1937	0.2614

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST	PART	MACH	RX10-6	CONF	TRANSITION
5	13	2.16	2.5	F32	FIXED

POINT	ALPHA	CNF	CM	CA	XCPF	YCPF
1	-6.00	-0.0538	-0.0062	-0.0259	0.1152	0.4814
2	-4.00	-0.0356	-0.0043	-0.0200	0.1208	0.5618
3	-3.00	-0.0176	-0.0021	-0.0122	0.1193	0.6932
4	-2.00	-0.0016	0.0003	-0.0065	-0.1875	4.0625
5	-1.00	0.0144	0.0026	-0.0016	0.1806	-0.1111
6	0.0	0.0285	0.0048	0.0047	0.1684	0.1649
7	1.00	0.0445	0.0070	0.0113	0.1573	0.2539
8	2.00	0.0605	0.0091	0.0197	0.1504	0.3256
9	3.00	0.0806	0.0107	0.0284	0.1328	0.3524
10	4.00	0.1048	0.0122	0.0377	0.1164	0.3597
11	6.00	0.1511	0.0147	0.0603	0.0973	0.3991
12	8.00	0.2035	0.0168	0.0845	0.0826	0.4152
13	10.00	0.2601	0.0184	0.1091	0.0707	0.4195
14	12.00	0.3168	0.0198	0.1355	0.0625	0.4277
15	14.00	0.3754	0.0212	0.1629	0.0565	0.4339
16	16.00	0.4378	0.0227	0.1910	0.0519	0.4363
17	18.00	0.4926	0.0241	0.2144	0.0489	0.4352
18	20.00	0.5480	0.0249	0.2394	0.0454	0.4369
19	22.00	0.6052	0.0248	0.2660	0.0410	0.4395
20	24.00	0.6638	0.0242	0.2902	0.0365	0.4372
21	26.00	0.7262	0.0228	0.3154	0.0314	0.4343
22	28.00	0.7857	0.0208	0.3391	0.0265	0.4316
23	0.0	0.0266	0.0045	0.0053	0.1692	0.1992
24	0.0	0.0263	0.0049	0.0063	0.1863	0.2395

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)
MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH RX10-6 CONF TRANSITION
5 14 1.50 1.8 F36 FIXED

POINT	ALPHA	CNF	CM	CA	XCPF	YCPF
1	-6.00	-0.0541	0.0051	-0.0230	-0.0937	0.4251
2	-4.00	-0.0375	0.0041	-0.0189	-0.1084	0.5048
3	-3.00	-0.0212	0.0033	-0.0137	-0.1572	0.6462
4	-2.00	-0.0075	0.0023	-0.0077	-0.3111	1.0267
5	-1.00	0.0009	0.0017	-0.0046	1.9259	-5.1111
6	0.0	0.0117	0.0011	-0.0011	0.0969	-0.0940
7	1.00	0.0281	0.0003	0.0041	0.0095	0.1459
8	2.00	0.0415	-0.0003	0.0090	-0.0080	0.2169
9	3.00	0.0605	-0.0015	0.0156	-0.0242	0.2579
10	4.00	0.0741	-0.0023	0.0216	-0.0306	0.2915
11	6.00	0.1141	-0.0039	0.0354	-0.0345	0.3103
12	8.00	0.1733	-0.0064	0.0501	-0.0369	0.2891
13	10.00	0.2136	-0.0083	0.0638	-0.0387	0.2987
14	12.00	0.2709	-0.0111	0.0767	-0.0411	0.2831
15	14.00	0.3269	-0.0135	0.0957	-0.0412	0.2927
16	16.00	0.3853	-0.0153	0.1118	-0.0398	0.2902
17	18.00	0.4542	-0.0174	0.1292	-0.0383	0.2845
18	20.00	0.5131	-0.0197	0.1462	-0.0385	0.2849
19	20.00	0.5166	-0.0199	0.1454	-0.0386	0.2815
20	22.00	0.5836	-0.0223	0.1585	-0.0396	0.2812
21	24.00	0.6277	-0.0255	0.1770	-0.0406	0.2820
22	26.00	0.6925	-0.0283	0.1944	-0.0409	0.2807
23	28.00	0.7520	-0.0311	0.2135	-0.0413	0.2839
24	0.0	0.0143	0.0013	-0.0030	0.0886	-0.2098
25	0.0	0.0145	0.0011	-0.0020	0.0782	-0.1379

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)

PAGE 1 OF 1

SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA

SPLITTER PLATE DATA

TEST	PART	MACH	RX10-6	CONF	TRANSITION
5	15	1.80	1.8	F36	FIXED

POINT	ALPHA	CNF	CM	CB	XCPF	YCPF
1	-6.00	-0.0808	0.0051	-0.0369	-0.0635	0.4567
2	-4.00	-0.0441	0.0038	-0.0246	-0.0862	0.5578
3	-3.00	-0.0262	0.0033	-0.0205	-0.1158	0.7270
4	-2.00	-0.0146	0.0025	-0.0156	-0.1712	1.0541
5	-1.00	-0.0040	0.0018	-0.0099	-0.4560	2.4750
6	0.0	0.0101	0.0007	-0.0064	0.0660	-0.6337
7	1.00	0.0297	-0.0009	-0.0012	-0.0292	-0.0404
8	2.00	0.0404	-0.0015	0.0045	-0.0380	0.1114
9	3.00	0.0486	-0.0021	0.0087	-0.0439	0.1798
10	4.00	0.0672	-0.0029	0.0143	-0.0437	0.2128
11	6.00	0.1014	-0.0042	0.0275	-0.0414	0.2712
12	8.00	0.1464	-0.0057	0.0385	-0.0387	0.2638
13	10.00	0.1891	-0.0075	0.0525	-0.0398	0.2776
14	12.00	0.2349	-0.0097	0.0655	-0.0412	0.2788
15	14.00	0.2923	-0.0107	0.0773	-0.0367	0.2645
16	16.00	0.3448	-0.0124	0.0939	-0.0360	0.2723
17	18.00	0.3930	-0.0144	0.1061	-0.0366	0.2708
18	20.00	0.4464	-0.0165	0.1201	-0.0370	0.2698
19	22.00	0.5047	-0.0185	0.1372	-0.0367	0.2718
20	24.00	0.5604	-0.0205	0.1540	-0.0366	0.2748
21	26.00	0.6135	-0.0227	0.1714	-0.0371	0.2794
22	28.00	0.6725	-0.0253	0.1881	-0.0376	0.2797
23	0.0	0.0101	0.0006	-0.0053	0.0594	-0.5248

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)
MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST	PART	MACH	RX10-6	CONF	TRANSITION
5	16	2.16	2.5	F36	FIXED

POINT	ALPHA	CNF	CM	CH	XCPF	YCPF
1	-6.00	-0.0381	0.0033	-0.0210	-0.0857	0.5512
2	-4.00	-0.0238	0.0026	-0.0150	-0.1092	0.6303
3	-3.00	-0.0115	0.0019	-0.0101	-0.1681	0.8783
4	-2.00	0.0009	0.0013	-0.0062	1.4815	-6.8889
5	-1.00	0.0139	0.0007	-0.0025	0.0144	-0.1799
6	0.0	0.0264	-0.0007	0.0032	-0.0253	0.1212
7	1.00	0.0366	-0.0011	0.0070	-0.0310	0.1913
8	2.00	0.0506	-0.0017	0.0121	-0.0341	0.2382
9	3.00	0.0666	-0.0021	0.0176	-0.0319	0.2635
10	4.00	0.0870	-0.0027	0.0218	-0.0307	0.2506
11	6.00	0.1214	-0.0039	0.0338	-0.0324	0.2784
12	8.00	0.1620	-0.0055	0.0455	-0.0337	0.2809
13	10.00	0.2057	-0.0077	0.0571	-0.0373	0.2776
14	12.00	0.2517	-0.0087	0.0690	-0.0344	0.2741
15	14.00	0.2959	-0.0098	0.0815	-0.0331	0.2754
16	16.00	0.3449	-0.0117	0.0949	-0.0340	0.2752
17	18.00	0.3920	-0.0138	0.1089	-0.0352	0.2778
18	20.00	0.4434	-0.0159	0.1243	-0.0359	0.2803
19	22.00	0.4926	-0.0182	0.1402	-0.0369	0.2846
20	24.00	0.5437	-0.0201	0.1557	-0.0370	0.2864
21	26.00	0.5965	-0.0219	0.1705	-0.0368	0.2858
22	28.00	0.6496	-0.0238	0.1845	-0.0366	0.2848
23	0.0	0.0244	-0.0006	0.0029	-0.0246	0.1189
24	10.00	0.2077	-0.0077	0.0574	-0.0372	0.2764

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST	PART	MACH	RX10-6	CONF	TRANSITION
5	17	1.50	1.8	F11	FIXED

POINT	ALPHA	CNF	CM	CB	XCPF	YCPF
1	-6.00	-0.1463	-0.0286	-0.0676	0.1955	0.4621
2	-4.00	-0.0846	-0.0176	-0.0382	0.2080	0.4515
3	-3.00	-0.0510	-0.0110	-0.0301	0.2157	0.5902
4	-2.00	-0.0191	-0.0022	-0.0100	0.1152	0.5236
5	-1.00	0.0099	0.0033	-0.0074	0.3333	-0.7475
6	0.0	0.0424	0.0109	0.0054	0.2571	0.1274
7	1.00	0.0854	0.0167	0.0166	0.2554	0.2538
8	2.00	0.0936	0.0221	0.0261	0.2361	0.2788
9	3.00	0.1314	0.0283	0.0417	0.2154	0.3174
10	4.00	0.1536	0.0340	0.0597	0.2214	0.3887
11	6.00	0.2358	0.0417	0.0886	0.1768	0.3757
12	8.00	0.3023	0.0482	0.1245	0.1594	0.4118
13	10.00	0.3849	0.0522	0.1597	0.1356	0.4149
14	12.00	0.4545	0.0539	0.1979	0.1186	0.4354
15	14.00	0.5492	0.0537	0.2387	0.0985	0.4378
16	16.00	0.6308	0.0520	0.2760	0.0824	0.4375
17	18.00	0.7144	0.0491	0.3160	0.0687	0.4423
18	20.00	0.7967	0.0463	0.3531	0.0581	0.4432
19	22.00	0.8679	0.0431	0.3907	0.0497	0.4502
20	24.00	0.9529	0.0409	0.4276	0.0429	0.4487
21	26.00	1.0181	0.0369	0.4614	0.0362	0.4532
22	28.00	1.0996	0.0318	0.4879	0.0289	0.4437
23	0.0	0.0432	0.0099	0.0030	0.2292	0.0694
24	0.0	0.0483	0.0102	0.0014	0.2112	0.0290

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)
MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST	PART	MACH	RX10-6	CONF	TRANSITION
9	18	1.60	1.8	F11	FIXED

POINT	ALPHA	CNF	CN	CM	XCPF	YCPF
1	-6.00	-0.1489	-0.0147	-0.0769	0.0987	0.5165
2	-4.00	-0.0854	-0.0099	-0.0509	0.1159	0.5960
3	-3.00	-0.0465	-0.0066	-0.0356	0.1419	0.7656
4	-2.00	-0.0226	-0.0036	-0.0247	0.1593	1.0929
5	-1.00	0.0066	-0.0007	-0.0155	-0.1061	-2.3485
6	0.0	0.0356	0.0026	-0.0063	0.0730	-0.1770
7	1.00	0.0545	0.0055	0.0061	0.1009	0.1119
8	2.00	0.0835	0.0088	0.0178	0.1054	0.2132
9	3.00	0.1178	0.0117	0.0277	0.0993	0.2351
10	4.00	0.1412	0.0143	0.0456	0.1013	0.3215
11	6.00	0.2094	0.0190	0.0743	0.0907	0.3548
12	8.00	0.2774	0.0238	0.1055	0.0858	0.3803
13	10.00	0.3453	0.0289	0.1368	0.0837	0.3962
14	12.00	0.4126	0.0337	0.1726	0.0816	0.4181
15	14.00	0.4862	0.0377	0.2021	0.0775	0.4157
16	16.00	0.5552	0.0396	0.2329	0.0713	0.4195
17	18.00	0.6192	0.0407	0.2629	0.0657	0.4246
18	20.00	0.6836	0.0404	0.2951	0.0591	0.4317
19	22.00	0.7488	0.0386	0.3224	0.0515	0.4306
20	24.00	0.8142	0.0351	0.3564	0.0431	0.4377
21	26.00	0.8849	0.0308	0.3862	0.0348	0.4364
22	28.00	0.9502	0.0279	0.4157	0.0294	0.4375
23	0.0	0.0451	0.0044	-0.0023	0.0976	-0.0510
24	0.0	0.0402	0.0036	-0.0031	0.0896	-0.0771

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST	PART	MACH	RX10-6	CONF	TRANSITION
5	19	2.16	2.5	F11	FIXED

POINT	ALPHA	CNF	CM	CB	XCPF	YCPF
1	-6.00	-0.0969	-0.0054	-0.0558	0.0557	0.5759
2	-4.00	-0.0399	-0.0037	-0.0313	0.0927	0.7865
3	-3.00	-0.0174	-0.0023	-0.0208	0.1322	1.1954
4	-2.00	0.0089	-0.0006	-0.0097	-0.0674	-1.0899
5	-1.00	0.0312	0.0011	0.0009	0.0353	0.0288
6	0.0	0.0537	0.0028	0.0097	0.0521	0.1806
7	1.00	0.0802	0.0042	0.0190	0.0524	0.2369
8	2.00	0.1101	0.0059	0.0342	0.0536	0.3106
9	3.00	0.1290	0.0065	0.0423	0.0504	0.3279
10	4.00	0.1553	0.0074	0.0550	0.0476	0.3542
11	6.00	0.2159	0.0091	0.0835	0.0421	0.3868
12	8.00	0.2728	0.0108	0.1115	0.0396	0.4087
13	10.00	0.3415	0.0126	0.1429	0.0369	0.4184
14	12.00	0.4022	0.0146	0.1678	0.0363	0.4172
15	14.00	0.4620	0.0171	0.2016	0.0370	0.4364
16	16.00	0.5301	0.0205	0.2296	0.0387	0.4331
17	18.00	0.6022	0.0239	0.2544	0.0397	0.4225
18	20.00	0.6704	0.0262	0.2858	0.0391	0.4263
19	22.00	0.7312	0.0262	0.3157	0.0358	0.4318
20	24.00	0.7927	0.0257	0.3438	0.0324	0.4337
21	26.00	0.8504	0.0246	0.3713	0.0289	0.4366
22	28.00	0.9160	0.0236	0.3963	0.0258	0.4326
23	0.0	0.0537	0.0031	0.0097	0.0577	0.1806

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST	PART	MACH	RX10-6	CONF	TRANSITION
5	20	1.50	1.8	F15	FIXED

POINT	ALPHA	CNF	CM	CB	XCPF	YCPF
1	-6.00	-0.1619	-0.0131	-0.0658	0.0812	0.4064
2	-4.00	-0.0929	-0.0081	-0.0385	0.0871	0.4144
3	-3.00	-0.0641	-0.0042	-0.0264	0.0655	0.4119
4	-2.00	-0.0297	-0.0009	-0.0162	0.0288	0.5455
5	-1.00	-0.0006	0.0022	-0.0043	-3.6294	7.1667
6	0.0	0.0343	0.0055	0.0013	0.1610	0.0379
7	1.00	0.0580	0.0089	0.0148	0.1529	0.2552
8	2.00	0.0919	0.0128	0.0276	0.1396	0.3003
9	3.00	0.1263	0.0159	0.0401	0.1256	0.3175
10	4.00	0.1658	0.0184	0.0533	0.1107	0.3215
11	6.00	0.2450	0.0223	0.0889	0.0911	0.3629
12	8.00	0.3211	0.0238	0.1189	0.0741	0.3703
13	10.00	0.4138	0.0239	0.1582	0.0577	0.3823
14	12.00	0.4953	0.0226	0.1953	0.0455	0.3943
15	14.00	0.5865	0.0198	0.2258	0.0337	0.3850
16	16.00	0.6587	0.0162	0.2635	0.0246	0.4000
17	18.00	0.7469	0.0124	0.2938	0.0166	0.3934
18	20.00	0.8349	0.0068	0.3257	0.0082	0.3901
19	22.00	0.9082	0.0019	0.3560	0.0021	0.3920
20	24.00	0.9926	-0.0039	0.3781	-0.0039	0.3809
21	26.00	1.0685	-0.0122	0.4012	-0.0112	0.3686
22	28.00	1.1464	-0.0180	0.4219	-0.0157	0.3688
23	0.0	0.0342	0.0055	0.0013	0.1615	0.0380

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST	PART	MACH	RX10-6	CONF	TRANSITION
5	21	1.80	1.8	F15	FIXED

POINT	ALPHA	CNF	CM	CA	ΔCPF	YCPF
1	-6.00	-0.1277	-0.0061	-0.0616	0.0481	0.4824
2	-4.00	-0.0830	-0.0047	-0.0457	0.0572	0.5506
3	-3.00	-0.0532	-0.0033	-0.0317	0.0629	0.5959
4	-2.00	-0.0183	-0.0011	-0.0240	0.0595	1.3115
5	-1.00	0.0060	0.0005	-0.0132	0.0907	-2.2008
6	0.0	0.0306	0.0019	-0.0024	0.0635	-0.0784
7	1.00	0.0604	0.0033	0.0068	0.0554	0.1126
8	2.00	0.0850	0.0050	0.0152	0.0586	0.1788
9	3.00	0.1145	0.0064	0.0267	0.0557	0.2332
10	4.00	0.1443	0.0072	0.0405	0.0501	0.2807
11	6.00	0.2090	0.0086	0.0686	0.0413	0.3282
12	8.00	0.2896	0.0089	0.0986	0.0309	0.3405
13	10.00	0.3597	0.0085	0.1293	0.0236	0.3595
14	12.00	0.4303	0.0074	0.1576	0.0172	0.3663
15	14.00	0.5014	0.0055	0.1882	0.0110	0.3753
16	16.00	0.5730	0.0037	0.2141	0.0064	0.3736
17	18.00	0.6343	0.0015	0.2386	0.0023	0.3762
18	20.00	0.7054	-0.0012	0.2640	-0.0018	0.3743
19	22.00	0.7717	-0.0042	0.2888	-0.0054	0.3742
20	24.00	0.8395	-0.0086	0.3137	-0.0102	0.3737
21	26.00	0.9074	-0.0127	0.3339	-0.0140	0.3680
22	28.00	0.9710	-0.0173	0.3559	-0.0179	0.3665
23	0.0	0.0303	0.0022	-0.0024	0.0719	-0.0792

TEST PART MACH RX10-6 CONF TRANSITION.
5 22 2.16 2.5 F15 FIXED

POINT	ALPHA	CNF	CM	CB	XCPF	YCPF
1	-6.00	-0.0875	-0.0018	-0.0414	0.0204	0.4731
2	-4.00	-0.0564	-0.0015	-0.0316	0.0262	0.5603
3	-3.00	-0.0337	-0.0009	-0.0211	0.0254	0.6261
4	-2.00	-0.0030	-0.0002	-0.0114	0.0778	3.8008
5	-1.00	0.0199	0.0005	-0.0008	0.0234	-0.0402
6	0.0	0.0469	0.0009	0.0085	0.0182	0.1812
7	1.00	0.0695	0.0015	0.0172	0.0213	0.2475
8	2.00	0.0967	0.0019	0.0283	0.0201	0.2927
9	3.00	0.1239	0.0024	0.0395	0.0195	0.3188
10	4.00	0.1506	0.0026	0.0505	0.0175	0.3349
11	6.00	0.2084	0.0023	0.0764	0.0108	0.3666
12	8.00	0.2704	0.0010	0.1027	0.0037	0.3798
13	10.00	0.3326	-0.0002	0.1272	-0.0007	0.3824
14	12.00	0.3956	-0.0021	0.1500	-0.0053	0.3792
15	14.00	0.4546	-0.0040	0.1741	-0.0087	0.3827
16	16.00	0.5219	-0.0062	0.1955	-0.0119	0.3746
17	18.00	0.5806	-0.0087	0.2192	-0.0150	0.3775
18	20.00	0.6432	-0.0117	0.2432	-0.0181	0.3781
19	22.00	0.7067	-0.0146	0.2658	-0.0207	0.3761
20	24.00	0.7702	-0.0173	0.2840	-0.0223	0.3649
21	26.00	0.8381	-0.0203	0.3080	-0.0242	0.3675
22	28.00	0.9053	-0.0234	0.3253	-0.0259	0.3593
23	0.8	0.0469	0.0009	0.0085	0.0182	0.1812

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST	PART	MACH	RX10-6	CONF	TRANSITION
5	23	1.50	1.8	F14	FIXED

POINT	ALPHA	CNF	CM	CB	XCPF	YCPF
1	-6.00	-0.1049	0.0059	-0.0434	-0.0559	0.4137
2	-4.00	-0.0576	0.0040	-0.0255	-0.0692	0.4412
3	-3.00	-0.0371	0.0033	-0.0158	-0.0881	0.4259
4	-2.00	-0.0221	0.0026	-0.0045	-0.1176	0.2036
5	-1.00	0.0041	0.0017	0.0012	0.4065	0.2927
6	0.0	0.0247	0.0013	0.0086	0.0548	0.3482
7	1.00	0.0454	0.0007	0.0136	0.0162	0.2996
8	2.00	0.0709	0.0	0.0216	0.0	0.3047
9	3.00	0.0967	-0.0009	0.0367	-0.0090	0.3795
10	4.00	0.1232	-0.0014	0.0427	-0.0114	0.3466
11	6.00	0.1746	-0.0029	0.0659	-0.0164	0.3774
12	8.00	0.2309	-0.0041	0.0850	-0.0179	0.3681
13	10.00	0.2976	-0.0059	0.1052	-0.0199	0.3535
14	12.00	0.3643	-0.0079	0.1254	-0.0218	0.3442
15	14.00	0.4315	-0.0112	0.1451	-0.0260	0.3363
16	16.00	0.5126	-0.0169	0.1735	-0.0329	0.3385
17	18.00	0.5897	-0.0201	0.1907	-0.0341	0.3234
18	20.00	0.6654	-0.0233	0.2123	-0.0351	0.3191
19	22.00	0.7398	-0.0273	0.2375	-0.0370	0.3215
20	24.00	0.8014	-0.0310	0.2565	-0.0387	0.3201
21	26.00	0.8692	-0.0351	0.2783	-0.0404	0.3202
22	28.00	0.9312	-0.0387	0.2970	-0.0416	0.3189
23	0.0	0.0248	0.0013	0.0062	0.0511	0.2509

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST	PART	MACH	RX10-6	CONF	TRANSITION
5	24	1.60	1.8	F14	FIXED

POINT	ALPHA	CNF	CM	CB	XCPF	YCPF
1	-6.00	-0.0970	0.0029	-0.0431	-0.0296	0.4443
2	-4.00	-0.0514	0.0025	-0.0250	-0.0493	0.4884
3	-3.00	-0.0311	0.0023	-0.0176	-0.0750	0.5659
4	-2.00	-0.0107	0.0022	-0.0125	-0.2056	1.1682
5	-1.00	0.0047	0.0017	-0.0059	0.3546	-1.2553
6	0.0	0.0200	0.0011	0.0008	0.0567	0.0408
7	1.00	0.0405	0.0007	0.0059	0.0181	0.1457
8	2.00	0.0608	0.0006	0.0133	0.0099	0.2187
9	3.00	0.0761	0.0002	0.0200	0.0026	0.2628
10	4.00	0.1016	-0.0001	0.0281	-0.0013	0.2766
11	6.00	0.1524	-0.0009	0.0466	-0.0057	0.3058
12	8.00	0.2030	-0.0019	0.0673	-0.0095	0.3315
13	10.00	0.2596	-0.0032	0.0817	-0.0123	0.3147
14	12.00	0.3114	-0.0052	0.1000	-0.0167	0.3211
15	14.00	0.3740	-0.0075	0.1148	-0.0201	0.3070
16	16.00	0.4306	-0.0093	0.1314	-0.0217	0.3052
17	18.00	0.4923	-0.0117	0.1483	-0.0237	0.3012
18	20.00	0.5492	-0.0142	0.1670	-0.0259	0.3041
19	22.00	0.6069	-0.0167	0.1835	-0.0276	0.3024
20	24.00	0.6646	-0.0201	0.2044	-0.0302	0.3076
21	26.00	0.7265	-0.0225	0.2213	-0.0310	0.3046
22	28.00	0.7780	-0.0253	0.2391	-0.0325	0.3073
23	0.0	0.0198	0.0013	0.0008	0.0640	0.0404

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH RX10-6 CONF TRANSITION
5 25 2.16 2.5 F14 FIXED

POINT	ALPHA	CNF	CM	CB	XCPF	YCPF
1	-6.00	-0.0788	0.0031	-0.0333	-0.0389	0.4226
2	-4.00	-0.0398	0.0019	-0.0157	-0.0486	0.3945
3	-3.00	-0.0202	0.0017	-0.0094	-0.0825	0.4653
4	-2.00	-0.0004	0.0011	-0.0033	-2.8333	8.2500
5	-1.00	0.0155	0.0004	0.0023	0.0250	0.1484
6	0.0	0.0352	-0.0003	0.0102	-0.0076	0.2898
7	1.00	0.0507	-0.0005	0.0177	-0.0105	0.3491
8	2.00	0.0743	-0.0009	0.0244	-0.0126	0.3284
9	3.00	0.0937	-0.0013	0.0341	-0.0142	0.3639
10	4.00	0.1173	-0.0019	0.0408	-0.0165	0.3478
11	6.00	0.1645	-0.0029	0.0560	-0.0174	0.3404
12	8.00	0.2080	-0.0043	0.0724	-0.0205	0.3481
13	10.00	0.2553	-0.0059	0.0873	-0.0232	0.3420
14	12.00	0.3034	-0.0083	0.1021	-0.0272	0.3365
15	14.00	0.3601	-0.0111	0.1144	-0.0307	0.3177
16	16.00	0.4080	-0.0131	0.1275	-0.0320	0.3125
17	18.00	0.4559	-0.0157	0.1421	-0.0344	0.3117
18	20.00	0.5120	-0.0183	0.1579	-0.0358	0.3084
19	22.00	0.5642	-0.0209	0.1751	-0.0370	0.3104
20	24.00	0.6165	-0.0234	0.1922	-0.0380	0.3118
21	26.00	0.6725	-0.0261	0.2079	-0.0389	0.3091
22	28.00	0.7324	-0.0291	0.2222	-0.0397	0.3034
23	0.0	0.0351	-0.0003	0.0102	-0.0076	0.2906

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST	PART	MACH	RX10-6	CONF	TRANSITION
5	26	1.50	1.8	F13	FIXED

POINT	ALPHA	CNF	CM	CA	XCPF	YCPF
1	-6.00	-0.2433	-0.0141	-0.1058	0.0579	0.4349
2	-4.00	-0.1606	-0.0103	-0.0696	0.0644	0.4334
3	-3.00	-0.1087	-0.0067	-0.0475	0.0615	0.4370
4	-2.00	-0.0615	-0.0027	-0.0243	0.0443	0.3951
5	-1.00	-0.0094	0.0016	-0.0035	-0.1737	0.3723
6	0.0	0.0431	0.0053	0.0144	0.1227	0.3341
7	1.00	0.0990	0.0100	0.0384	0.1005	0.3879
8	2.00	0.1514	0.0132	0.0577	0.0873	0.3811
9	3.00	0.1943	0.0170	0.0804	0.0873	0.4138
10	4.00	0.2428	0.0193	0.1022	0.0794	0.4209
11	6.00	0.3486	0.0217	0.1460	0.0622	0.4188
12	8.00	0.4488	0.0224	0.1930	0.0499	0.4299
13	10.00	0.5592	0.0212	0.2407	0.0378	0.4304
14	12.00	0.6338	0.0156	0.2810	0.0309	0.4433
15	14.00	0.7316	0.0164	0.3217	0.0224	0.4395
16	16.00	0.8179	0.0122	0.3559	0.0149	0.4351
17	18.00	0.8949	0.0083	0.3863	0.0093	0.4316
18	20.00	0.9655	0.0022	0.4203	0.0022	0.4265
19	22.00	1.0665	-0.0043	0.4503	-0.0040	0.4223
20	24.00	1.1474	-0.0108	0.4774	-0.0094	0.4161
21	26.00	1.2296	-0.0170	0.4993	-0.0138	0.4061
22	28.00	1.2645	-0.0202	0.5180	-0.0157	0.4033
23	0.0	0.0474	0.0050	0.0176	0.1050	0.3713

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(LWPWT)
MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH RX10-6 CONF TRANSITION
5 27 1.60 1.0 F13 FIXED

POINT	ALPHA	CNF	CM	CB	XCPF	YCPF
1	-6.00	-0.2176	0.0001	-0.1037	-0.0004	0.4764
2	-4.00	-0.1443	0.0002	-0.0664	-0.0011	0.4682
3	-3.00	-0.1004	0.0002	-0.0484	-0.0023	0.4821
4	-2.00	-0.0562	0.0005	-0.0316	-0.0097	0.5623
5	-1.00	-0.0170	0.0006	-0.0126	-0.0366	0.7412
6	0.0	0.0223	0.0003	0.0049	0.0139	0.2197
7	1.00	0.0621	0.0001	0.0197	0.0013	0.3172
8	2.00	0.1061	0.0005	0.0378	0.0044	0.3563
9	3.00	0.1455	0.0005	0.0560	0.0032	0.3984
10	4.00	0.1845	0.0005	0.0771	0.0030	0.4179
11	6.00	0.2673	0.0012	0.1126	0.0047	0.4212
12	8.00	0.3500	0.0019	0.1495	0.0056	0.4271
13	10.00	0.4379	0.0024	0.1841	0.0055	0.4203
14	12.00	0.5215	0.0028	0.2212	0.0054	0.4241
15	14.00	0.6012	0.0029	0.2523	0.0048	0.4196
16	16.00	0.6710	0.0023	0.2879	0.0034	0.4298
17	18.00	0.7458	0.0016	0.3153	0.0022	0.4227
18	20.00	0.8161	0.0001	0.3451	0.0001	0.4228
19	22.00	0.8876	-0.0028	0.3721	-0.0032	0.4192
20	24.00	0.9553	-0.0066	0.3987	-0.0069	0.4174
21	26.00	1.0191	-0.0105	0.4209	-0.0103	0.4131
22	28.00	1.0819	-0.0144	0.4470	-0.0133	0.4132
23	0.0	0.0268	0.0003	0.0053	0.0116	0.1978

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)
MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST PART MACH RX10-6 CONF TRANSITION
5 28 2.16 2.5 F13 FIXED

POINT	ALPHA	CNF	CM	CA	XCPF	YCPF
1	-6.00	-0.1482	0.0023	-0.0692	-0.0157	0.4669
2	-4.00	-0.0770	0.0014	-0.0413	-0.0182	0.5364
3	-3.00	-0.0501	0.0009	-0.0259	-0.0186	0.5170
4	-2.00	-0.0165	0.0007	-0.0122	-0.0426	0.7394
5	-1.00	0.0175	0.0002	0.0016	0.0133	0.0914
6	0.0	0.0478	0.0001	0.0151	0.0016	0.3159
7	1.00	0.0779	-0.0002	0.0297	-0.0020	0.3813
8	2.00	0.1219	-0.0006	0.0476	-0.0051	0.3905
9	3.00	0.1455	-0.0009	0.0594	-0.0059	0.4082
10	4.00	0.1796	-0.0013	0.0732	-0.0074	0.4076
11	6.00	0.2469	-0.0018	0.1029	-0.0072	0.4168
12	8.00	0.3177	-0.0022	0.1329	-0.0069	0.4183
13	10.00	0.3885	-0.0021	0.1640	-0.0054	0.4221
14	12.00	0.4525	-0.0023	0.1935	-0.0052	0.4275
15	14.00	0.5273	-0.0023	0.2229	-0.0043	0.4226
16	16.00	0.5913	-0.0032	0.2521	-0.0054	0.4263
17	18.00	0.6624	-0.0049	0.2818	-0.0074	0.4254
18	20.00	0.7381	-0.0061	0.3068	-0.0082	0.4156
19	22.00	0.8106	-0.0083	0.3336	-0.0103	0.4115
20	24.00	0.8826	-0.0110	0.3590	-0.0125	0.4066
21	26.00	0.9513	-0.0139	0.3839	-0.0146	0.4035
22	28.00	1.0173	-0.0177	0.4087	-0.0174	0.4018
23	0.0	0.0509	0.0001	0.0175	0.0015	0.3438

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST	PART	MACH	RX10-6	CONF	TRANSITION
5	29	1.50	1.8	F16	FIXED

POINT	ALPHA	CNF	CM	CB	XCPF	YCPF
1	-6.00	-0.2252	-0.0297	-0.0943	0.1319	0.4187
2	-4.00	-0.1480	-0.0213	-0.0627	0.1439	0.4236
3	-3.00	-0.0933	-0.0149	-0.0407	0.1597	0.4362
4	-2.00	-0.0465	-0.0079	-0.0233	0.1699	0.5011
5	-1.00	0.0052	-0.0004	-0.0038	-0.0769	-0.7308
6	0.0	0.0516	0.0075	0.0209	0.1453	0.4050
7	1.00	0.0984	0.0145	0.0398	0.1474	0.4045
8	2.00	0.1491	0.0224	0.0633	0.1502	0.4245
9	3.00	0.2057	0.0286	0.0817	0.1390	0.3972
10	4.00	0.2391	0.0330	0.1063	0.1380	0.4446
11	6.00	0.3347	0.0406	0.1481	0.1213	0.4425
12	8.00	0.4401	0.0451	0.1904	0.1025	0.4326
13	10.00	0.5210	0.0495	0.2373	0.0950	0.4555
14	12.00	0.6127	0.0509	0.2793	0.0831	0.4559
15	14.00	0.7046	0.0509	0.3226	0.0722	0.4578
16	16.00	0.7836	0.0510	0.3607	0.0651	0.4602
17	18.00	0.8679	0.0520	0.3995	0.0599	0.4603
18	20.00	0.9430	0.0517	0.4372	0.0548	0.4636
19	22.00	1.0276	0.0505	0.4700	0.0491	0.4574
20	24.00	1.1027	0.0470	0.5028	0.0426	0.4560
21	26.00	1.1739	0.0410	0.5365	0.0349	0.4570
22	28.00	1.2421	0.0323	0.5612	0.0260	0.4518
23	0.0	0.0655	0.0075	0.0179	0.1145	0.2733
24	0.0	0.0515	0.0075	0.0194	0.1456	0.3767

LANGLEY RESEARCH CENTER(NASA) UNITARY PLAN WIND TUNNEL(UPWT)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST	PART	MACH	RX10-6	CONF	TRANSITION
5	30	1.00	1.8	F16	FIXED

POINT	ALPHA	CNF	CM	CB	XCPF	YCPF
1	-6.00	-0.1721	-0.0059	-0.0802	0.0343	0.4660
2	-4.00	-0.1194	-0.0045	-0.0612	0.0377	0.5126
3	-3.00	-0.0853	-0.0036	-0.0428	0.0422	0.5018
4	-2.00	-0.0421	-0.0022	-0.0263	0.0523	0.6247
5	-1.00	-0.0034	-0.0013	-0.0074	0.3824	2.1765
6	0.0	0.0356	-0.0004	0.0102	-0.0112	0.2865
7	1.00	0.0792	0.0010	0.0254	0.0126	0.3207
8	2.00	0.1134	0.0019	0.0425	0.0168	0.3748
9	3.00	0.1565	0.0032	0.0604	0.0204	0.3859
10	4.00	0.1908	0.0046	0.0803	0.0241	0.4209
11	6.00	0.2790	0.0073	0.1193	0.0263	0.4291
12	8.00	0.3605	0.0113	0.1581	0.0313	0.4386
13	10.00	0.4556	0.0162	0.1963	0.0356	0.4309
14	12.00	0.5399	0.0231	0.2376	0.0428	0.4401
15	14.00	0.6156	0.0301	0.2769	0.0489	0.4497
16	16.00	0.6941	0.0337	0.3109	0.0486	0.4479
17	18.00	0.7643	0.0346	0.3440	0.0453	0.4501
18	20.00	0.8300	0.0343	0.3779	0.0413	0.4553
19	22.00	0.9084	0.0326	0.4109	0.0359	0.4523
20	24.00	0.9773	0.0318	0.4431	0.0325	0.4534
21	26.00	1.0430	0.0314	0.4726	0.0301	0.4531
22	28.00	1.1099	0.0302	0.4996	0.0272	0.4501
23	0.0	0.0357	-0.0004	0.0088	-0.0112	0.2465
24	10.00	0.4540	0.0165	0.1971	0.0363	0.4341

LANGLEY RESEARCH CENTER (NASA) UNITARY PLAN WIND TUNNEL (UPWT)

PAGE 1 OF 1
SHEET 1 OF 1

MARTIN MISSILE TAIL EFFECTS DATA
SPLITTER PLATE DATA

TEST	PART	MACH	RX10-6	CONF	TRANSITION
5	31	2.16	2.5	F16	FIXED

POINT	ALPHA	CNF	CM	CB	XCPF	YCPF
1	-6.00	-0.1087	-0.0028	-0.0528	0.0258	0.4857
2	-4.00	-0.0757	-0.0024	-0.0370	0.0317	0.4888
3	-3.00	-0.0426	-0.0021	-0.0234	0.0493	0.5493
4	-2.00	-0.0093	-0.0014	-0.0085	0.1505	0.9140
5	-1.00	0.0208	-0.0003	0.0040	-0.0144	0.1923
6	0.0	0.0507	0.0001	0.0186	0.0020	0.3669
7	1.00	0.0806	0.0008	0.0320	0.0099	0.3978
8	2.00	0.1139	0.0011	0.0458	0.0097	0.4021
9	1.00	0.0838	0.0008	0.0356	0.0095	0.4248
10	2.00	0.1104	0.0012	0.0476	0.0109	0.4312
11	3.00	0.1473	0.0019	0.0618	0.0129	0.4196
12	4.00	0.1770	0.0026	0.0773	0.0147	0.4367
13	6.00	0.2439	0.0037	0.1082	0.0152	0.4436
14	8.00	0.3140	0.0047	0.1403	0.0150	0.4468
15	10.00	0.3870	0.0065	0.1738	0.0168	0.4491
16	12.00	0.4588	0.0082	0.2058	0.0180	0.4505
17	14.00	0.5336	0.0103	0.2419	0.0193	0.4533
18	16.00	0.6177	0.0134	0.2745	0.0217	0.4444
19	18.00	0.6940	0.0178	0.3085	0.0256	0.4445
20	20.00	0.7700	0.0222	0.3446	0.0288	0.4475
21	22.00	0.8432	0.0235	0.3757	0.0279	0.4456
22	24.00	0.9103	0.0243	0.4074	0.0267	0.4475
23	26.00	0.9741	0.0240	0.4388	0.0246	0.4505
24	28.00	1.0355	0.0230	0.4679	0.0222	0.4519
25	0.0	0.0540	0.0004	0.0189	0.0074	0.3508

Listing of Part Numbers for the Tabulated Data of Test No. 1*

CONF	L	DELI	DEL2	DEL3	DEL4	PHI	TRANSITION	R x 10^{-6}	α	β	Part Number															
											M_∞	M_∞	M_∞	M_∞	M_∞	M_∞	M_∞	M_∞	M_∞	M_∞	M_∞	M_∞	M_∞	M_∞	M_∞	M_∞
											0.20	0.40	0.50	0.60	0.80	0.85	0.92	0.94	0.95	0.96	0.98	1.00	1.05	1.10	1.20	1.30
B4WOF12	0	0	0	0	0	0	Unknown	2.3	Vary	0					(4)	5	(8)	9 19		10	(14)		15	(16)	17	18
B4WOF13															(22)	24	(30)	31		32	(33)		34	(35)	(36)	(37)
B4WOF16															(42)	43	(44)	45		46	(47)		48	(49)	(50)	(51)
B4WOF22															(57)	58	(61)				(62)			(64)	(65)	(66)
B4WOF23															(71)	72	(73)				(74)			(75)	(76)	(77)
B4WOF21															(82)	83	(84)				(87)			(90)	(91)	(92)
B4WOF35															(97)	98 106	(99)				(100)			(103)	(104)	(105)
B4WOF34															(111)	112	(115)				(117)			(118)	(119)	(120)
B4WOF33															(125)	126	(127)	128		129	(131)			(132)	(133)	(134)
B4WOF32															(139)	140	(141)	142		143	(144)			(150)	(151)	(152)
B4WOF31															(156)	157	(158)				(159)			(160)	(161)	(162)
B4WOF11															(166)	167	(168)	169		170	(171)			(172)	(173)	(174)
B2WOF0		OFF	OFF	OFF	OFF										(178)	179	(180)				(181)			(182)	(183)	(184)
B5WOF0															(187)	188	(189)				(190)			(191)	(192)	(193)
B4WOF0															(196)	197	(198)				(199)			(200)	(201)	(202)
								Vary	23.5				205													
									12.0										206							
									9.0																	207
								3.9	30.0			210		211	212							213			214	
								2.0			220	219		218	217								216	215		
								3.8	Vary			223														

* No Tail Fin Data Presented

Listing of Part Numbers for the Tabulated Data of Test No. 2*

CONF	L	DEL1	DEL2	DEL3	DEL4	PHI	TRANSITION	R x 10^{-6}	α	β	Part Number M_∞ 0.59	M_∞ 0.80	M_∞ 0.85	M_∞ 0.92	M_∞ 0.98	M_∞ 1.10	M_∞ 1.20	M_∞ 1.29	M_∞ 1.30
83WOF0	0	OFF	OFF	OFF	OFF	0	Free	0.3	Vary	0	5								
								0.4			7								
								0.7			8								
								1.1			9								
								1.3			10								
								1.8			11								
								2.6			12								
								3.5			14								
								4.3			15								
↓		↓	↓	↓	↓		↓	4.9			16								
83WOF15		0	0	0	0		Fixed	0.3			24								
								0.4			26								
								0.7			27								
								1.1			31								
								1.3			32								
						↓		3.4			33								
						180		0.3			36								
								0.4			37								
								0.7			38								
								1.1			39								
								1.3			40								
						↓	↓	3.4			41								
						0	Free	0.4			47								
								0.7			48								
								1.1			49								
								3.4			50								
↓								2.5				(57)	58	(59)	(60)	(61)	(62)	63	
B3WOF14												(69)	70	(71)	(72)	(73)	(74)		(75)
B3WOF21												(80)	81	(82)	(83)	(84)	(85)		(86)
B3WOF36												(91)	92	(93)	(94)	(95)	(96)		(98)
B3WOF32	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓		(105)	106	(107)	(108)	(109)	(110)		(111)
						Splitter Plate Offset Angle													
B0WOF14	—	—	—	—	—	0	Free	2.5	Vary	—		(123)	155	(162) (163)	(171)	(130)	(144)		(137)
						15													
						30						(124)	156	(164)	(172)	(131)	(145)		(138)
						60						(125)	157	(166)	(173)	(132)	(146)		(139)
						90						(126)	158	(167)	(174)	(133)	(147)		(140)
						120						(127)	159	(168)	(175)	(134)	(148)		(141)
						150						(128)	160	(169)	(176)	(135)	(149)		(142)
↓						180						(129)	161	(170)	(177)		(150)		(143)
B0WOF11						0						(184)	194	(200)	(272)	(279)	(287)		(294)
						30						(185)	195	(202)	(273)	(280)	(288)		(295)
						60						(186)	196	(203)	(274)	(281)	(289)		(296)
						90						(187)	197	(204)	(275)	(282)	(290)		(297)
						120						(188)	198	(269)	(276)	(283)	(291)		(298)
						150						(189)	199	(270)	(277)	(284) (285)	(292)		(299)
↓						180						(190)	200	(271)	(278)	(286)	(293)		(300)
B0WOF36						0						(208)	215	(223)	(230)	(240)	(247)		(257)
						15													(258)
						30						(209)	217	(224)	(231)	(241)	(248)		(259)
						60						(210)	218	(225)	(234)	(242)	(249)		(260)
						90						(211)	219	(226)	(235)	(243)	(250)		(261)
						120						(212)	220	(227)	(236)	(244)	(251)		(262)
						150						(213)	221	(228)	(237)	(245)	(252)		(263)
↓	↓	↓	↓	↓	↓	180	↓	↓	↓	↓		(214)	222	(229)	(238)	(246)	(253)		(264)

* After Part Number 111, Only Splitter Plate Data Presented

Listing of Part Numbers for the Tabulated Data of Test No. 3*

CONF	L	DELI	DEL2	DEL3	DEL4	PHI	TRANSITION	R x 10^{-6}	α	β	Part Number			
											M_∞	M_∞	M_∞	M_∞
											2.36	2.86	3.95	4.63
B1WOF35	0	0	0	0	0	0	Fixed	3.0	Vary	0	(19)	(22)	(24)	(25)
↓	↓	↓	↓	↓	↓	45	↓	↓	↓	↓	(20)	(21)	(23)	(26)
↓	↓	↓	-20	↓	-20	0	↓	↓	↓	↓	27	28	29	30
↓	↓	20	↓	20	↓	45	↓	2.5	↓	↓	31			
↓	↓	↓	↓	↓	↓	↓	↓	3.0	↓	↓		32	33	34
B1WOF34	↓	↓	↓	↓	↓	↓	↓	2.5	↓	↓	35			
↓	↓	↓	↓	↓	↓	↓	↓	3.0	↓	↓		36	37	38
↓	↓	0	↓	0	↓	0	↓	↓	↓	↓	39	40	41	42
B1WOF33	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	43	44	45	46
↓	↓	20	↓	20	↓	45	↓	2.5	↓	↓	47			
↓	↓	↓	↓	↓	↓	↓	↓	3.0	↓	↓		48	49	50
↓	↓	0	0	0	0	0	↓	2.9	↓	↓	(51)			
↓	↓	↓	↓	↓	↓	45	↓	↓	↓	↓	(52)			
↓	↓	↓	↓	↓	↓	↓	↓	3.2	↓	↓		(53)		
↓	↓	↓	↓	↓	↓	0	↓	↓	↓	↓		(54)		
↓	↓	↓	↓	↓	↓	45	↓	3.0	↓	↓			(55)	(58)
↓	↓	↓	↓	↓	↓	0	↓	↓	↓	↓			(56)	(57)
B1WOF34	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	(59)	(62)	(64)	(65)
↓	↓	↓	↓	↓	↓	45	↓	↓	↓	↓	(60)	(61)	(63)	(66)
B1W1F34	15.42	↓	↓	↓	↓	↓	↓	↓	↓	↓	68	69	71	74
↓	↓	↓	↓	↓	↓	0	↓	↓	↓	↓	(67)	(70)	(72)	(73)
↓	↓	0	-20	0	-20	↓	↓	↓	↓	↓	75	76	77	78
↓	↓	20	↓	20	↓	45	↓	2.5	↓	↓	79			
↓	↓	↓	↓	↓	↓	↓	↓	3.0	↓	↓		80	81	82
B1W1F0	↓	OFF	OFF	OFF	OFF	↓	↓	↓	↓	↓	84	85	89	92
↓	↓	↓	↓	↓	↓	0	↓	↓	↓	↓	(83)	(86)	(90)	(91)
B1WOF0	0	↓	↓	↓	↓	↓	↓	↓	↓	↓	(93)	(94)	(95)	

* No Tail Fin Data Presented

Listing of Part Numbers for the Tabulated Data of Test No. 4*

CONF	L	DELI	DEL2	DEL3	DEL4	PHI	TRANSITION	R x 10^{-6}	α	β	Part Number			
											M_∞	M_∞	M_∞	M_∞
											2.36	2.86	3.95	4.63
B2WOF34	0	0	0	0	0	0	Fixed	3.0	Vary	0	(2)	(5)	(7)	(8)
↓	↓	↓	↓	↓	↓	-90	↓	↓	↓	↓	3	4	6	9
B2WOF35						0					(12)	(11)	(13)	(10)
B2WOF33			↓		↓	↓					(16)	(17)	(14)	(15)
B2WOF34			-20		-20	↓					18	19	20	21
B2WOF35		↓	↓	↓	↓	↓		↓			22	23	24	25
B2WOF33		↓	↓	↓	↓	↓						26		
↓		20	0	20	0	-90		↓				28	29	30
↓		↓	↓	↓	↓	↓		2.0			27			
B2WOF31								3.0			(34)	(35)	(36)	(37)
B2WOF32								↓			(38)	(39)	(40)	(41)
B2WOF36	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	(43)	(42)	(44)	(45)

* No Tail Fin Data Presented

Listing of Part Numbers for the Tabulated Data of Test No. 5*

CONF	L	DEL1	DEL2	DEL3	DEL4	PH1	TRANSITION	R x 10^{-6}	α	β	Part Number M_∞ 1.50	Part Number M_∞ 1.80	Part Number M_∞ 2.16
B0WOF35	—	—	—	—	—	—	Fixed	1.8	Vary	—	(2)	(3)	
↓								2.5					(4)
B0WOF34								1.8			(5)	(6)	
↓								2.5					(7)
B0WOF31								1.8			(8)	(9)	
↓								2.5					(10)
B0WOF32								1.8			(11)	(12)	
↓								2.5					(13)
B0WOF36								1.8			(14)	(15)	
↓								2.5					(16)
B0WOF11								1.8			(17)	(18)	
↓								2.5					(19)
B0WOF15								1.8			(20)	(21)	
↓								2.5					(22)
B0WOF14								1.8			(23)	(24)	
↓								2.5					(25)
B0WOF13								1.8			(26)	(27)	
↓								2.5					(28)
B0WOF16								1.8			(29)	(30)	
↓	↓	↓	↓	↓	↓	↓	↓	2.5	↓	↓			(31)

* Only Splitter Plate Data Presented

NOMENCLATURE

A	Streamwise length of beveled portion of fin leading edge, in. (see Fig. 6)
ALPHA (α)	Model angle of attack, deg
AR	Fin aspect ratio, b^2/S_F
B	Streamwise length of beveled portion of fin trailing edge, in. (see Fig. 6)
BETA (β)	Model angle of sideslip, deg
b	Tail fin span, measured from the root chord to the tip, in. (see Fig. 6)
CA	Axial-force coefficient. measured axial force/$q_\infty S$
CAB	Base axial-force coefficient, $(p_\infty - p_b)/q_\infty$
CAF	Forebody axial-force coefficient, CA - CAB
CB	Splitter plate tail fin root bending-moment coefficient, fin bending moment/$q_\infty S_F b$
CB1, CB2, CB3, CB4	Root bending-moment coefficient of tail fins No. 1, 2, 3, and 4, respectively, fin bending moment/$q_\infty S_F b$
CH	Splitter plate tail fin hinge-moment coefficient, hinge moment/$q_\infty S_F C_R$
CH1, CH2, CH3, CH4	Hinge-moment coefficients of tail fins No. 1, 2, 3, and 4, respectively, fin hinge moment/$q_\infty S_F C_R$
CLL	Rolling-moment coefficient, rolling moment/$q_\infty Sd$
CLM	Pitching-moment coefficient, pitching moment/$q_\infty Sd$ (moment reference point located on centerline at 50 percent of model body length)
CLN	Yawing-moment coefficient, yawing moment/$q_\infty Sd$
CN	Normal-force coefficient, normal force/$q_\infty S$

CNF	Splitter plate tail fin normal-force coefficient, fin normal force/$q_\infty S_F$
CNF1, CNF2, CNF3, CNF4	Normal-force coefficient of tail fins No. 1, 2, 3, and 4, respectively, fin normal force/$q_\infty S_F$
CONF	Model configuration identification
C_R	Tail fin root chord, in. (see Fig. 6)
C_T	Tail fin tip chord, in. (see Fig. 6)
C_Y	Side-force coefficient, side force/$q_\infty S$
d	Model body maximum diameter, in. (see Fig. 3)
DEL1, DEL2, DEL3, DEL4	Deflection of tail fins No. 1, 2, 3, and 4, respectively, deg
L	Distance between model nose and the intersection of the wing leading edge with the body (measured parallel to the body centerline), in.
MACH (M_∞)	Nominal free-stream Mach number
PART	Data indexing number
PHI	Model roll angle, deg
POINT	Data indexing number per part number
p_b	Average static pressure at model base, psfa
p_∞	Free-stream static pressure, psfa
q_∞	Free-stream dynamic pressure, psf
R	Nominal Reynolds number per foot
S	Maximum body cross-sectional area, ft^2
S_F	Tail fin planform area, ft^2 (see Fig. 6)
TEST	Test identification number
T_R	Tail fin root thickness, in. (see Fig. 6)

TRANSITION	Transition identification
X	Distance from fin root chord leading edge to fin hinge line, in. (see Fig. 6)
XCP	Missile body center-of-pressure location, CLM/CN
XCPF	Splitter plate fin longitudinal center-of-pressure location, CH/CNF
XCPF1, XCPF2 XCPF3, XCPF4	Longitudinal center-of-pressure location of tail fins No. 1, 2, 3, and 4, respectively, hinge moment/fin normal force
YCPF	Splitter plate fin lateral center-of-pressure location, CB/CNF
YCPF1, YCPF2 YCPF3, YCPF4	Lateral center-of-pressure location of tail fins No. 1 2, 3, and 4, respectively, root bending moment/fin normal force
Λ	Tail fin leading-edge sweep angle (see Fig. 6)
λ	Tail fin taper ratio, C_T/C_R